

# CLARK NAN

## SENIOR WEB DEVELOPER (REACT, PYTHON, ASP.NET, PHP)

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Welcome to my profile

I am a senior full-stack web/mobile developer with 13 years experience.

I have got many experiences having worked 13+ years in the Information Technology field with companies from small startups to large scale ones.

I have proven myself to be an important part of creating solutions for many individuals and companies. This includes creating custom tools, improving existing ones or creating mobile apps and websites (front and backend).

Now my main skills are React/Vue & Python/Django & ASP.NET Core/MVC & Laravel.

- Backend: Laravel, PHP, Node, Express, Koa, Django, Flask, ASP.NET Core/MVC, GraphQL, Ruby on Rails
- Database: PostgreSQL, MySQL, MongoDB, DynamoDB, CockroachDB, Google Datastore
- Serverless Experience: AWS Lambda, Azure Functions, Google Cloud Functions
- Framework/Libraries: Flask/Django/Zappa/PyMongo
- FrontEnd Frameworks: JavaScript, React/Redux/Mobx, Angular/RxJS/ngrx, Vue/Vuex, MERN
- UI Framework: Bootstrap, Telerik Kendo UI, Ant Design, Material UI/Kit, React Bootstrap, Semantic UI, React-md, PrimeReact, Materialize, Foundation, Skeleton
- Liquid/Twig/Blade/Dawoo/Smarty template engine
- Much experience on UI kit (Infragistics/DevExpress/Syncfusion/KendoUI/Semantic UI)
- CSS Preprocessors: Sass/Less/PostCSS
- CSS Architecture: BEM/OOCSS/SMACSS
- UI Build: Linters/Formatters like Prettier, ESLint, JSHint, JSLint, StandardJS
- Module Bundlers: Webpack, Parcel, Rollup
- Task Runners: NPM Scripts, Gulp
- CSS Components: Styled Components, CSS Modules, Emotion, Radium, Glamorous
- Testing Automation: Jest, Cypress, Jasmine, Eenzyme, Mocha, Chai, Ava, Karma, Protractor, Agouti, Gomega, Ginkgo, Spec (BDD test organizers)
- Understanding of different types of testing (Unit/Integration/Functional)
- Progressive Web: Storage, Web Sockets, Service Workers, Location, Notifications, Device Orientation, Payments, Credentials (OAuth, auth0)
- PRPL Pattern, RAIL Model, Performance Metrics, Using Light House, Using DevTools
- Type Check: TypeScript/Flow
- Server Side Rendering: React(Next.js/After.js), Angular(Universal), Vue(Nuxt.js)
- Static Site Generators: GatsbyJS
- Desktop Applications: Electron, Proton Native, Carlo

- Mobile Applications: React Native, NativeScript
- Web Assembly: WASM with Go/C/C++/Rust
- Atomic Design
- Others: GraphQL, Firebase, Redis, Websocket, SocketIO, ElasticSearch, CRUD, RESTful, Composer
- Cloud Service: AWS, Lambda, Azure, Google Cloud, AWS API Gateway, Redis
- MVVMP, MVP or MVVM architecture using Rx, Data Bindings, DI etc.
- Mobile: Android / iOS / Swift / React Native
- Full understanding on Agile Development including Git Flow, JIRA, Trello.
- Experience with abstraction and code reuse
- Ability to Structure code-base to be extendable.
- Writing re-usable components, services, and models.
- Experience working on large projects and have formed strong opinions
- Ability to work well with other developers within an agile development team
- Positive, optimistic, can-do attitude
- Being on top of the modern technologies I can architect any applications using MVVMP, MVP or MVVM architecture using Rx, Data Bindings, DI etc.

## EDUCATION

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**MS** Beijing University, Computer Science Sep 2006  
 Master's degree: Computer and Information Sciences and Support Services  
 Thesis: "Problems with load balancing at CI/CD: Lessons from a large scale web portal"

## EXPERIENCE

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**Senior Web Developer (React, Python, Laravel, ASP.NET) as Freelancer** 2018 –  
 - React / Redux / Sass / Jest / Enzyme  
 - Django 2.x / Graphene 2.x / Python3.x / Node.js 10.x / Express / Koa  
 - ASP.NET Core/MVC/WinForms  
 - AWS EC2/Lambda/Redis, Docker Machine, CI/CD Pipeline like Jenkins

**Senior Web Developer at Zealous System** 2013 – 2017  
 - React 16 + TypeScript 3.x + Sass + Jest/Enzyme  
 - Django 2.1 + Graphene 2.4: Primary responsibilities include DB schema / API design and development of server code based on  
 - Node.js 10.x: Developed and tested new financial reporting system  
 - Performed Laravel 5.7 modifications on existing event ticketing software.  
 - Lead Generation Web App (Node 8, koa 2.6, MongoDB, Redis/Nginx for Cluster)  
 - Developed Real-time GPS Tracking Of Delivery site (Redis/EC2, AWS Lambda, VPC Gateway)

**Android Developer at Hidden Brains InfoTech Pvt. Ltd.** 2010 – 2013

- Food delivery/Payment Gateway Integration for Android Phone/Tablet
- Android App for Video Streaming Service (BonTV, Zstream)

**Senior Java / ASP.NET Developer at Zco Corporation** 2007 – 2010

- ASP.NET Core/MVC : Developed information service site for the crypto asset and blockchain technology community
- Developed and tested the new inventory management system using Java, Spring boot, SSM, Mybatis
- Modified and tested order processing system using .NET Winforms/WPF

## **CAREER**

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Since the high school and university life, I have the genuine passion and interest in the software development and always have been volunteering to the projects.

At first, I have experienced Android & iOS projects for 4 years.

Then I have attended to build some big web sites and I have experienced of working in web field such as PHP, Laravel, Java, JavaScript, Node.js, Python for 5+ years.

I already have completed more than 30 projects related to React, Laravel, Python, JavaScript, Shopify, Magento, Wordpress, Android, Swift, React Native.

I attended Pluralsight course for "Lessons from Real World Code Reviews"  
(<http://bit.ly/dncm29-ps-course>).

I have been applying what I learned from Shawn Wildermuth to the real projects so far.

- code standards, unit tests are a key step for improving code quality - Sometimes I need Automated Software for analyzing code and flags suspect code that doesn't follow guidelines or has other potential issues.
- Pull Request, Tools like GitHub allow us to review codes and comment on it before it's merged.

As a senior fullstack developer, I have made the structure/system for React/CSS/PHP code reviews with the knowledge I experienced from My favorite mentor Shawn Wildermuth. During my React/TypeScript/PHP/.NET Core/Angular development, what I keep in mind is the "1 to M" rule which is, "Code is written once but read many times." This means that fancy or tricky coding should be avoided. If you can't figure out what the code is doing by reading it, it wasn't written well.

I have also much experience on blockchain/DdApp/Ethereum/Smart contracts/Solidity.

Before starting any project I discuss all necessary details and suggest any additional steps, so the final product matches the customer idea, while not missing out on further improvements from a rich past experience.

My customers are always kept up-to-date during the development process and are sure to be happy with the results. Furthermore, I also provide any documentation and instructions necessary, to prevent vendor lock-in.

## TYPICAL PROJECTS

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### **Joseflegal (Vue/Vuetify/ASP.NET/React/Flask)** 2019

My client Kirill and Tom wanted me to build Vue/TypeScript UI and MS Word converting tool by ASP.NET Core project.

This project includes APS.NET WinForms/Core API and FrontEnd UI (Vue/TypeScript/Sass)

The components/libraries I used were Vue Gridsome, Nuxt, Vue Apollo, Vue Multiselect, Vuelidate.

During development, we focused on

- Cypress.io(Unit Test), Sentry.io(Error Track)
- Gitflow and Github hook/actions (Source Management)
- Daily Scrum, Frequent refactoring and improvement performance

### **Driver Assist (React/ASP.NET)** 2019

My client Robert and Justin wanted me to build React/TypeScript UI for their ASP.NET project.

This project includes APS.NET WinForms/Core API and FrontEnd UI (React/TypeScript/Sass)

I recommended React/TypeScript UI based on CefSharp of .NET

During building React UI, I and Robert always focused on StoryBook and Enzyme for safe code, full unit test and expendable codes. This development attitude and habit was one of my best pride.

- ASP.NET Core 2.1 API for supporting updates of the latest computer drivers.
- UI with React.js 16 + TypeScript3
- Integrated UI via CefSharp framework with OwinFileHost.
- GraphQL REST API for latest driver information, rollback, alternative management.
- Used Docker, Docker machine, Docke compose for Continuous Integration, Delivery & Deployment (CI/CD)

### **SoftMatter** 2018

SoftMatter was a really good experience for my web developer career (ReactJS + .NET Core)

My clients wanted me to create .NET Core API for supporting updates of the latest computer drivers.

First I built UI with React.js 16 + TypeScript3.

And I integrated it via CefSharp framework by OwinFileHost.

Then I made Windows Forms to manage main UI outline including React UI webkit control box.

At third stage, I built GraphQL REST API for latest driver information, rollback, alternative management...

Driver management requires keyboard, mouse detect and other system devices detect in run-time base.

I registered this app as Windows Services and check periodically network status with firewall rules.

Finally I deployed it at Azure

I used Docker, Docker machine, Docker compose for Continuous Integration, Delivery & Deployment (CI/CD)

My clients emphasized Unit Test structure so that I used Jest/Enzyme and Storybook for React

You can see how I build UI/Main SDK/API part from source code and how I run as service via teamviewer.

I think this project concept and source code will greatly help any other projects.

Main advantages from this project and my experience are:

- React+TypeScript+SASS UI
- .NET Core 2.x API
- Test Framework (StoryBook, Jest, Enzyme)

I can reuse all libraries and source codes for future projects and it will greatly reduce time and cost.

the IT lead were really satisfied about my ability to solve any challenges in the real world during the interview.

So I am quite sure I can show my ability during an interview.

At that time, he required me to do online coding test and for an 1 hour, I passed all unit tests of online coding.

## **Qsr Automation**

2017

My client wanted me to build React.js 16.1 + TypeScript 3.4 for UI of front end with fantasy football analytics app. FE functionality included being able to accept a file, send the file to the server, run shell script on server with the file as argument. Shell script generated a new file and the server should return this file to the client where it was downloaded.

I made Node.js GraphQL API. At that time I deployed it at AWS.

If you want, I can deploy it as AWS lambda function (Serverless framework)

Then I analysed ingredients for clients sent by REST API and generated the files of analysing results.

The users of site can download these files.

Main advantages from this project and my experience are:

- React.js + TypeScript + Sass
- Node.js / AWS Cloud Service / Lambda function
- File generation libraries like jsPDF, FPDF

## **Ticket Tailor**

2016

This site was for ticketing their events.

My clients wanted me to make features as a ticketing platform for events of all sizes.

My role was:

- Frontend features with React JS 16, Redux Saga
- Upgrade site by Spring Boot 2.1.4
- Reconstruct models to speed up by Hibernate 5.2
- Gitlab code management
- AWS VPS/Lambda/S3/SQS/API Gateway configuration
- Deploy by Docker compose, docker machine

I have been always satisfying my client with the punctual delivery and the best quality.

Please contact me if you'd like to use my rolling-up-sleeves attitude and the genuine ability to solve any issues in real world.

## **LANGUAGES**

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**Chinese:** Native Language

**English:** Fullent, Advanced Speaking

**Korean/Japanese:** Intermediate Listener, Novice Speaker, Advanced Reading and Writing

## **HONORS AND AWARDS**

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### **Hack-athon Award supported by Paypal**

2006

I attended to build an app to help puppies in shelters, connecting users with dogs available for adoption and allowing donors to use PayPal to contribute money towards vaccinations and vet treatments.

## **TRAINING COURSES**

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### **Back-End Web Development Training (LinkedInLearning – Lynda)**

2014

I learned how to use and grow agile development practices on a project, including continuous integration (Go, Jenkins etc) and behavior or test driven development practices (TDD).

The test projects were mainly Django, Laravel based web apps.

### **Course name Complete Python Development Courses Online (Digital Defynd)**

2015

I learned how to work on custom-designed, multi-tier, business applications that use the very latest technologies to build scalable and critical systems.

The test projects were mainly Django, Flask web apps.

### **Course name The Complete JavaScript Course for Professional in Udemy**

2017

I learned how to maintain and enhance code integrity, security, data protection and quality. The test projects were mainly React, Vue, Angular 7 web apps.

## **CHARACTER, HOBBIES**

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### **Keep Growing Attitude**

What I try most is that I must make a commitment to grow daily. The greatest day in my life is when I take total responsibility for my attitudes. That's the day I truly grow up.

So I always try to grow up a little bit daily. Reading books, listening TED talks, attending conferences at least once a week. It's my greatest hobby and interest.

### **Failing Forward Attitude**

In life, the question is not if we will have problems, but how we are going to deal with our problems. What I think everytime I start a new project - Fail early, fail often, but always fail forward.