



Scaling From Zero to 1500 M1 Macs in 12 Months



Alectrona



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About Electrona

- Electrona Infrastructure - Our MSP offering
 - Includes Jamf Pro, Jamf Protect, Jamf Connect
 - Device & Cloud Services Management
 - Device Depot Service & Procurement Facilitation
- Electrona Patch
- Electrona Migrator





Problem Overview: High-Growth, Remote Healthcare Startup



Challenges with Existing Workflows

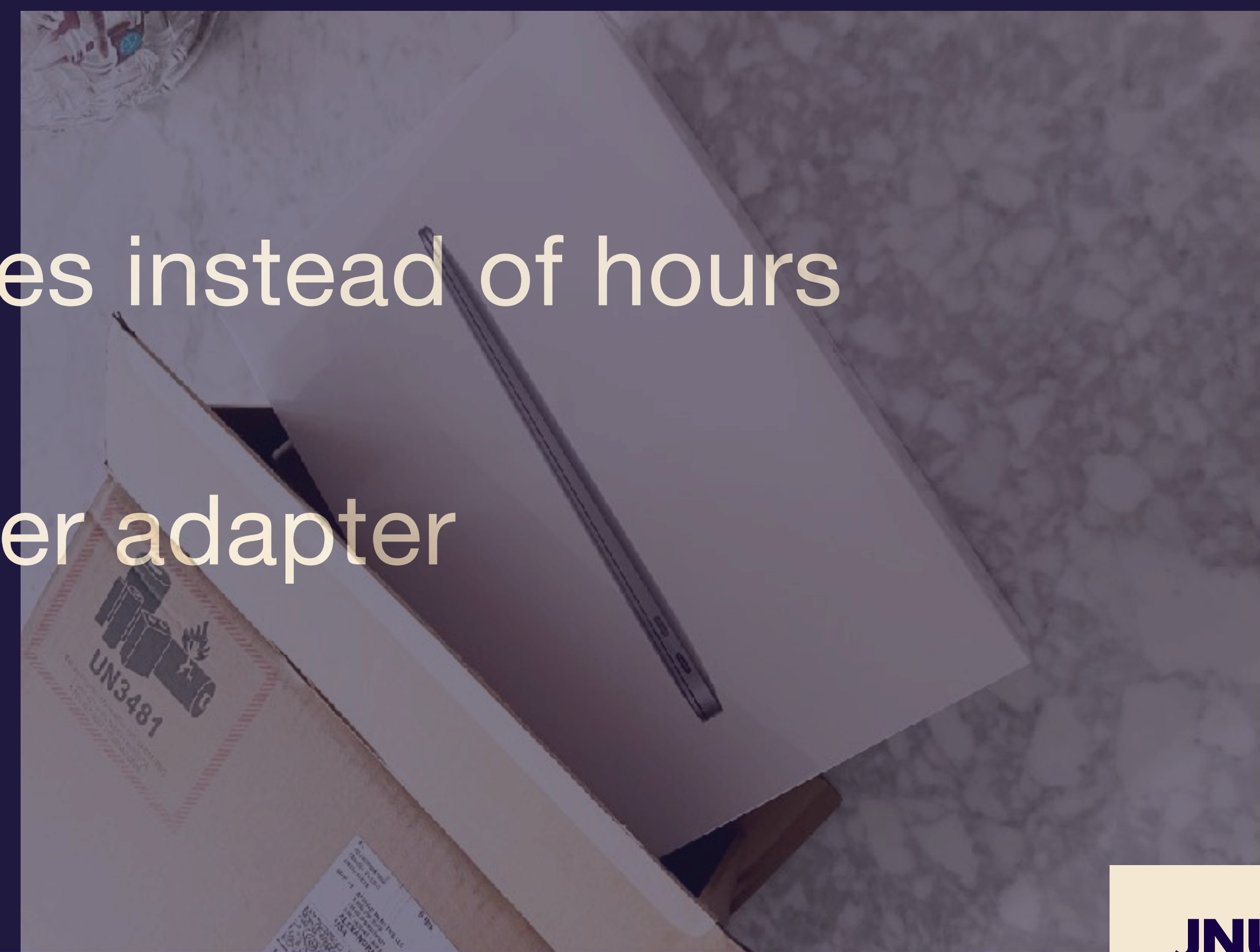
- Zero-Touch Deployment Issues
 - Connectivity, Reliability
- Reprovisioning Issues
- User Account & Identity Management
- Procurement Delays





Advantages of Apple Silicon

- Cost
- Reinstall macOS in minutes instead of hours
- Battery life
 - Enrollment without power adapter





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User Account Provisioning

- Just in time provisioning vs. preparing in advance
- User-level MDM limitations
- Generic account solution for in-person distribution




```
amlc — bash — 80x24
ryan:~ root# /Users/amlc/Desktop/computer-assignment-tool.app/Contents/MacOS/computer-assignment-tool
```

System Preferences

Search

Sign in to your Apple ID

Set up iCloud, the App Store, and more.

Sign In

General

Desktop & Screen Saver

Dock & Menu Bar

Mission Control

Siri

Spotlight

Language & Region

Notifications

@

Internet Accounts

Users & Groups

Accessibility

Screen Time

Extensions

Security & Privacy

Software Update

Network

Bluetooth

Sound

Printers & Scanners

Keyboard

Trackpad

Mouse

Displays

Sidecar

Energy Saver

Date & Time

Sharing

Time Machine

Startup Disk

Profiles

CDs & DVDs

Inventory

Management

History



Hardware

MacBook Air (M1, 2020)



Operating System

macOS 12.0.1



User and Location



Security



Purchasing



Storage

1 Drive



Extension Attributes



Disk Encryption

Extension Attributes

Accounts Using Known Temporary Passwords: None

Admin Rights Exception - User Type:

Alectrona Patch Version: 1.0.0-48

Alectrona Updater Alert Count: 0

Alectrona Updater First Alert Date: None

Automated Enrollment Workflow Status: Complete

Cached Squirrel Updates:

Name: Google Do
Version: 1.35.0
ID: ghbmnnjooekp

Name: Gmail



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Optimizing Automated Enrollment

- Unbox
- As few clicks as possible!
- Scripted FileVault enablement (no password entry)
- Install all apps & settings, set dock with no user interaction
- Verification step to alert admin of errors during enrollment
- Box it up and ship!





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Results

- Started at 60 employees, scaled to over 1500
- Over 100 Macs deployed per week
 - Very few support calls on first day
 - 2-3 service desk staff
- High turnover for temporary positions
 - Wipe & reissue also dozens per week
- 99%+ 5-star satisfaction rating
- Largest challenge was shipping delays





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“We’ve had an intense year of rapid growth, and we’re confident we can keep up this pace with the support we’re getting from Alectrona. Knowing our technology will function flawlessly allows us to focus on expanding our business and helping save lives in a pandemic.”

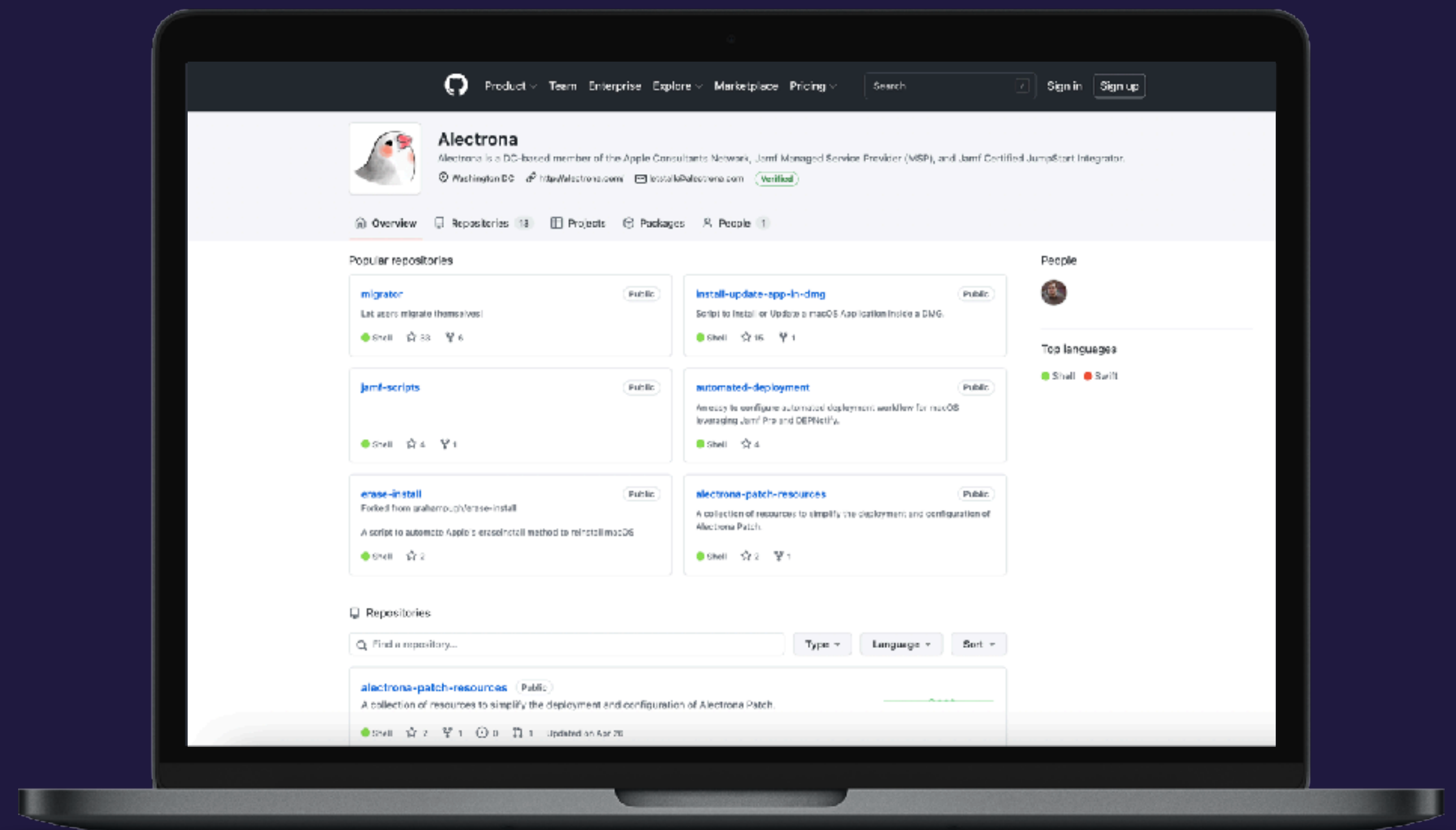
Dan Gabriel, CEO, AM LLC





github.com/electrona

- FileVault Automation
- Enrollment





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**Thank you for
listening!**

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