

# Neal Viswanath

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U.S. Citizen | Bay Area, CA  
github.com/nealav  
nealv.me

## TECHNICAL SKILLS

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- Python, JavaScript, React, Gatsby, Node.js (Express, Hapi), PostgreSQL, SQL, GraphQL, HTML/CSS
- \*nix, Google Cloud Platform (GCP), Git, Bash, gcloud, Docker, Jenkins

## EXPERIENCE

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### • Palo Alto Networks

Santa Clara, CA

*Software Engineer*

*Nov 2018 - Mar 2020*

- Full stack feature developer on the Customer Support Portal: <https://support.paloaltonetworks.com/>. Enabling 400K+ users to manage and monitor devices and accounts, and create support tickets. Won the 2019 TSIA Star Award for Innovation in Customer Portals.
- Architected and developed a real-time notification system to alert users of account-based events that scales to millions of messages per day with Node.js and GCP (Firebase, Firestore, BigQuery, Pub/Sub, GKE).
- Developed Amber-UI, a React UI Component Library for internal/customer-facing web applications across multiple teams. Pioneered React Microfrontend architecture for increased code reusability and maintainability.
- Re-engineered IronSkillet [↗](#), a PANW open source firewall configuration management tool, as a user-friendly service-based web tool that drives customers to configure more secure devices.
- Developed Best Practice Assessment [↗](#) - a customer web tool to validate the security of a PANW device's configuration/network by uploading firewall system/log files.
- Designed and POC'd: (1) GraphQL Proxy and API Gateway (Apigee) to transition from monolith to microservices architecture (2) App debugging and logging with Stackdriver to shift from on-prem services to GCP.
- Automated ETL pipelines across GCP storage services (Storage, Firestore, BigQuery) with gcloud, Docker and Jenkins. Developed dashboards for BI data analytics using Data Studio.
- Implemented lazy loading of Coveo, our knowledge article search engine, saving ~\$500K/year in Query API costs.
- Created JavaScript standards for our organization i.e. ESLint, React (Styleguidist) and API documentation, Webpack, TDD with Cypress and Jest.

### • Intel Corporation

Phoenix, AZ

*Software Engineering Intern*

*May 2017 - Aug 2017*

- Analyzed and formatted industrial eng data from machine logs with Python to optimize factory floor processes.
- Aggregated and visualized materials engineering finance data to create a cost estimation dashboard. Drove increased materials cost savings and more efficient supply/price tracking.

### • Stanford Dept. of Reconstructive Surgery

Stanford, CA

*Research Intern (Dr. Jill Helms)*

*May 2015 - Aug 2015*

### • ASU Stem Cell Bioengineering Lab

Phoenix, AZ

*Research Assistant (Dr. David Brafman)*

*Dec 2014 - Sep 2015*

## EDUCATION

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### • Arizona State University

Phoenix, AZ

*Bachelor of Science, Computer Science; GPA: 4.00/4.00*

*Aug. 2014 - May. 2018*

## PROJECTS

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- **Personal Website & Blog** [↗](#) : Space built with React, Gatsby and hosted with Netlify.
- **Reddit Map (Python, React)** [↗](#) : Streams Reddit posts from location-based Subreddits into a live-post map.
- **Twitter Sentiment Analyzer (Tweepy, TextBlob, Matplotlib)** [↗](#) : Fetches tweets by keyword or username and analyzes their overall sentiment.
- **Craigslist Scraper (Python)**: Scrapes Craigslist for automobile listings across the U.S. to comparison shop cars.
- **Senior Capstone (Android)**: Medication schedule manager app for epilepsy patients.
- **GitHub Scraper (Python)** [↗](#) : Scrapes GitHub for user bio/email/location info. for meta-analysis and talent sourcing. Overlays user data on a heatmap using Folium.
- **Concert Playlist Creator (Node.js, Spotify, Songkick)** [↗](#) : Gathers artists playing soon in your area filtered by the popularity of their events and makes a Spotify playlist of their top songs.