Neal Viswanath

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nealv.me

Technical Skills

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

Experience

- **Palo Alto Networks**   Santa Clara, CA

  Software Engineer   *Nov 2018 - Mar 2020*

  - Full stack feature developer on the Customer Support Portal (CSP): 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 realtime 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 (BPA) - 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. (1) ESLint configurations (2) React (Styleguidist) and API documentation (3) streamlined build tools for React with webpack (4) 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

- **Arizona State University**   Phoenix, AZ

  Bachelor of Science, Computer Science; GPA: 4.00/4.00   *Aug. 2014 – May. 2018*

Projects

- **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. Analysis blog here: ↗ .
- **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.