Alvin **Kong**

SOFTWARE ENGINEER

San Francisco Bay Area

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Experience

Walmart eCommerce → @WalmartLabs   *San Bruno, CA*

SOFTWARE ENGINEER III   *Feb 2018 – Present*

- Worked as part of the "Home vertical" team for Walmart.com in an agile / scrum environment
- Implemented core features for new "Home Experience" and 2018's "Back to College" initiatives (React, Redux)
- Wrote comprehensive unit tests for front-end components and pure functions for robustness (Enzyme, Jest, Sinon)

DailyShoes   *San Francisco, CA*

DATA ANALYST / TOOLS   *Apr 2016 – Aug 2017*

- Played integral role in inventory replenishment system by developing automated sales forecasts (LES model – rolling averages, seasonality, exponential smoothing techniques) for products across marketplaces
- Was key contributor in new products development by developing tools to monitor up-and-coming trends
- Wrote robust ETL processes in Python to extract data from various sources to data warehouse
- Created dashboards and reports to monitor business performance and aid in data-driven decisions
- Developed automated processes to update inventory and price changes across marketplaces

Education

University of California, Santa Barbara   *Santa Barbara, CA*

B.S. IN PHYSICS   *Aug 2010 – Jun 2014*

Linear Algebra • Vector Calculus • Differential Equations • Euler-Lagrangian Mechanics • Analog / Digital Electronics • ,Complex Analysis • Probability and Statistics

Skills

Languages   JavaScript • Ruby • SQL • Python • HTML • CSS • LaTeX
Frameworks React • Redux • Enzyme • Jest • Sinon • D3.js • Rails • Pandas • NumPy • Matplotlib
Knowledge   Git • RESTful APIs • Functional Programming • JIRA • Scrum • Agile • Version Control
Expertise   Web Development • Responsive Web Design • Test Driven Development (TDD) • Data Analysis • Data Manipulation • Data Visualization • Web Scraping

Projects

Betternote (React.js, Redux, React-Quill, PostgreSQL, Rails)   *Live | Github*

A FAITHFUL EVERNOTE CLONE

- Interative UX implemented using various JavaScript and CSS techniques
- Auto-save feature was implemented using a debouncer

Smooth (React Native, Ruby on Rails, Google Maps API)   *Live | Github*

AN IOS PATH-FINDING APP

- Users can weigh by importance the elevation change, safety, and distance to destination
- Gathered road network, crime, and elevation data using open source APIs
- Modeled data as a graph to use A* algorithm to find the shortest weighted path to destination