GRIFFIN BRANHAM

griffinbranham@gmail.com | Bend, OR

SUMMARY

Seasoned engineer with a passion for writing code, seeking backend software developer role after a career transition from hardware

SKILLS

Languages   Go, Java, Python, TypeScript, SQL
Technologies Spring Boot, Django, Gin, AWS, Docker, Kubernetes, NoSQL, CircleCI

EXPERIENCE

Generac Power Systems – Software Engineer II   2021 – 2023

- Created an API for sending commands to a residential solar battery backup using Go and gRPC. The API validated command structure and implemented graphs of user relationships, minimizing failed requests due to conflicting or invalid commands

- Enabled users of an inverter gateway web portal to view device response information in seconds, by caching AWS Kinesis data into Redis and adding a blocking-polling mechanism to an asynchronous Spring Boot API

- Built a Behavior-Driven Development testing service for a gRPC API, integrating the validation of user stories into the CI/CD workflow and enabling end-to-end testing of the complete API

- Added a firmware update system to a Spring Boot API for inverter gateways, enabling simple and inexpensive field upgrades by delivering signed firmware download packets over MQTT

- Automated the loading of new customer account information into Salesforce by creating a scheduled Celery task that eliminated data-entry errors and saved several man-hours per day

- Reduced load time by 95% for a Django web page containing thousands of database entries by optimizing SQL queries

Apple – Hardware Engineer III   2019 – 2021

- Managed 3 memory chip testing labs in Silicon Valley while providing comprehensive technical support, including the development of Python software to control a chip handling machine, enabling autonomous testing of up to 300 memory chips, reducing the need for manual cycling

Micron – Systems Engineering Lead   2017 – 2019
Micron – Hardware Engineer I – III   2011 – 2017

- Supervised a memory chip testing lab in Silicon Valley, coordinating the efforts of 3 direct-report engineers where the team conducted comprehensive system-level validation for major networking customers, directly enabling over $20 million in sales

EDUCATION

Washington State University – B.S. Electrical Engineering   2010