GRIFFIN BRANHAM

griffinbranham@gmail.com | griffinbranham.com | Bend, Oregon

SKILLS	**Languages:** Go, Java, Python, Typescript, SQL **Technologies:** Spring Boot, Django, AWS, Docker, Kubernetes, NoSQL, CircleCI

EXP

Generac Power — Software Engineer   2021 — 2023

- Created an API for controlling an IoT solar battery using Go and gRPC, validating request structure and implementing graphs of user relationships to minimize conflicting or invalid commands

- Enabled users of a web portal for IoT solar inverters to instantly see device status updates, by caching AWS Kinesis data in Redis and adding a blocking-polling mechanism to the backend Spring Boot API

- Built a Behavior-Driven Development testing service for an API, integrating end-to-end testing and the validation of user stories into the deployment pipeline

- Added a firmware update system to a Spring Boot API for IoT solar inverters, facilitating 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 in Python that eliminated data-entry errors

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

- Onboarded and mentored new hires and interns

Apple — Product Engineer   2019 — 2021

- Managed 3 memory chip testing labs in Silicon Valley while providing technical support, including the development of Python software to control a chip handling machine, enabling autonomous testing of up to 300 devices

Micron — Systems Engineer Lead   2017 — 2019
Micron — Hardware Engineer   2011 — 2017

- Supervised a memory chip testing lab in Silicon Valley, managing 3 direct-report engineers where the team conducted comprehensive system-level validation for major networking customers, resulting in over $20M in sales

ED

Washington State University — B.S. Electrical Engineering   2010