Aalok Borkar

GitHub: [AalokBorkar](#) ❖ aaa.borkar@gmail.com ❖ (503) 467-8015 ❖ Portland, Oregon **(U.S. Citizen)**

EXPERIENCE

Qualcomm   August 2020 – Present
Software Engineer   *San Diego, CA*
- Architected and co-constructed several key modem software features in C++ that increased the efficiency of device operations by 30% on over 60 million devices.
- Built and owned a Python application that parses specification files and outputs C++ data structures which control 5G and LTE functionality.
- Conducted real time debugging and utilized OOP principles to refactor existing features to ensure scalability and code maintainability across product lines.
- Collaborated with a cross-functional team in an agile environment to consistently meet stringent project deadlines.

Qualcomm   June 2019 – September 2019
Software Engineering Intern (Full Stack)   *San Diego, CA*
- Architected and built an internal hardware test automation application resulting in a 67% increase in testing efficiency.
- Designed and constructed a collaborative web portal in React for creating dynamic hardware test configurations.
- Built a Windows desktop application in C++ to autonomously execute and update live hardware test schedules through an accompanying cloud-based datastore, greatly improving testing efficacy.
- Designed and developed a web-based tool in React for creating and managing hardware test schedules live as they run.

Intel   June 2018 – September 2018
Software Engineering Intern (Data Engineering)   *Portland, OR*
- Built a linked server between internal SQL databases to support simultaneous querying.
- Wrote dynamic SQL queries to extract critical metadata about ISV requests and product shipments.
- Constructed a web tool in React to enhance the product ordering process for both internal and external customers.
- Optimized the data architecture behind the internal product ordering process using REST API interactions.

EDUCATION

Oregon State University   July, 2020
Bachelor of Science, Computer Science   *Corvallis, OR*
- GPA 4.00
- Recipient of the Drucilla Shepard Smith Award in recognition of academic excellence.
- Awarded the Curtis Cooke Private Academic Scholarship.

PROJECTS

Tango (YC Startup School): A mobile retail-dating app that gives matched users discounts for dates at favorite local venues.
Experience: www.tangoapp.biz: Designed and built out a scalable system architecture and data pipeline (Swift MVC client, AWS EC2 hosted Node REST API, MongoDB Atlas cloud datastore) to facilitate thousands of concurrent users, constructed key view controllers, and optimized application performance (runtime & network) to increase scalability and reduce costs.

Purple News: A web tool for scraping and clustering politically polarized news stories to mitigate media echo-chambers.
Experience: Implemented 84% accurate topic modeling using Google NLP to cluster web-scraped news articles, and constructed a React web application allowing users to view, comment, and share posts on popular social media.

SKILLS

Proficient: C++, Python, Rust, C, JavaScript (Node, JQuery, React), HTML5, CSS3, SQL (Postgres & MSSQL), MongoDB, Multitier Application Architecture, Scalable Server Architecture, RESTful APIs, AWS EC2, Linux, Agile – Scrum, JIRA, Git.
Intermediate: Java, Docker, TensorFlow (Keras), Natural Language Processing (Word2Vec, Doc2Vec).