

# Aalok Borkar

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## EDUCATION

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### Oregon State University

Expected June, 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.

## WORK EXPERIENCE

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### 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 for creating dynamic hardware test configurations.
- Designed and developed a web-based tool for creating and managing hardware test schedules live as they run.
- Built a windows desktop application in Rust to autonomously execute and update live hardware test schedules through an accompanying NoSQL datastore, improving testing efficacy.
- Worked closely with internal customers to engineer application requirements throughout the development process.

### Intel

June 2018 – September 2018

*Data Analytics/ Software Engineering Intern*

*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 facing GUI to enhance the product ordering process for both internal and external customers.
- Conducted ROI analysis for the implementation of a more efficient order fulfillment process and supporting data infrastructure.
- Optimized the data architecture behind the internal product ordering process using RESTful API interactions.

### Intel

June 2017 – December 2017

*Software Development Intern*

*Portland, OR*

- Worked alongside internal Intel customers to ratify user requirements and create statement of work documents.
- Designed and developed back-end relational database in PostgreSQL for Intel's production website.
- Constructed the GUI for Intel's internal hardware inventory management website utilizing ReactJS framework.
- Developed and executed both tests and test cases to ensure total customer quality assurance.
- Worked with a software oriented team to utilize the Agile framework and Scrum process to consistently meet deadlines.

## PROJECTS

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**News Aggregator:** A web tool for scraping and clustering news stories of similar sentiment to mitigate media echo-chambers.

*Experience:* Implemented a natural language processing algorithm using Python's NLTK to extract sentiment from and cluster web-scraped news articles, and constructed a webpage in JavaScript allowing users to share posts on popular social media.

**BlockTrack:** A decentralized logistics smart contract running on the Ethereum blockchain with a web-based interface.

*Experience:* Implemented multitier architecture for the decentralized application by constructing a smart contract powered by efficient and cost-effective Solidity code, and creating a Web3 injected (Metamask) webpage for user interaction.

## SKILLS

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*Proficient:* C++, C, Python, Rust, SQL (Postgres & MSSQL), NoSQL (CouchDB), JavaScript (jQuery, NodeJS), HTML5, CSS3, RESTful APIs, Multitier Application Architecture, Linux, Agile – Scrum, JIRA, Git.

*Intermediate:* Java, Solidity, ReactJS, TensorFlow & Keras, Natural Language Processing (NLTK), Server Architecture, AWS.