

# FAIZ SURANI

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## EDUCATION

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### University of California, Santa Barbara (UCSB)

2019 – 2023

*B.S. Computing, College of Creative Studies*

*GPA: 4.0*

*Relevant Coursework:* Data Structures & Algorithms I-II (II in progress), Formal Languages & Automata, Algorithms & Human Decisions (in progress), Computer Architecture, Foundations of Computer Science (Discrete Mathematics), Computer Programming & Organization I-II, Linear Algebra, Differential Equations

### Westlake High School (WHS)

2015 – 2019

## SKILLS

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*Computer Languages* Ruby, C#, C, C++, JavaScript (ES2020, TypeScript), Swift, Python, Java  
*Technologies* Git, ASP.NET Core, Rails, Electron, React, MATLAB, pandas, GraphQL, Azure, SQL Server, PostgreSQL, Open XML, L<sup>A</sup>T<sub>E</sub>X

## WORK EXPERIENCE

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### AppFolio

June – Sept. 2020

*Software Engineering Intern*

- Integrated machine learning into property maintenance workflow using BERT models to classify issues.
- Added TypeScript support to frontend codebase and led large-scale refactor and migration to improve code structure and resolve race conditions.
- Optimized asynchronous code and database queries resulting in two-fold increase in app performance metrics.

### Brownfield Programming NSF Grant

Oct. 2019 –

*Research Assistant (Oct. 2019 – June 2020), Maintainer (June 2020 –)*

- Worked with UCSB, WSU, and Humboldt State professors on building out software tools as part of "Brownfield Programming" National Science Foundation grant to pioneer new styles of computer science education.
- Lead engineer on Rails/React web app used by over a dozen instructors to manage thousands of students in computer science courses and analyze student GitHub activity.

### Astera Software

June – Sept. 2019

*Software Engineering Intern*

- In .NET, implemented smart data-mapping algorithm and designed parser for DSL in data integration product.
- Analyzed OCR PDF data using neural network to ingest contract metadata into data warehouse automatically.
- Migrated product documentation from Zendesk to Sphinx-generated static content and established Git-based workflow for composing and reviewing new documentation.

## EXTRACURRICULARS

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### Projects

*A full list and more detailed descriptions can be found at [faizsurani.com/work](https://faizsurani.com/work).*

- **DrDocx** - Desktop app for doctors to manage and generate Word reports from patient data and test results. (ASP.NET Core, SQLite, Open XML, Electron, React)
- **GNP optimal evacuation plan** - Vehicle routing problem simulation to generate optimal evacuation routes for Glacier National Park. (MATLAB, Java)
- **REGULAR VM** - Implementation of RISC architecture including an interpreter, assembler, and disassembler. (C)
- **Sentiment analysis of political discourse** - Statistical comparison of average sentiment between conservative- and liberal-skewing Reddit communities. (Python)

### Organizations

*UCSB* Moot Court (Founder/President), Mock Trial (Technology Director), SB Hacks VI

*WHS* Data Science Club (President, M3 Challenge Team Captain), Computer Science Club (VP), Mock Trial, Academic Decathlon

## ACHIEVEMENTS

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M3 Challenge Top 15% (2018, 2019), MIT Zero Robotics International Finalist (2017), Academic Decathlon state finalist (2019), 2<sup>nd</sup> Place Pretrial Attorney (2019, Regional Tournament)