

COMPUTER SCIENCE STUDENT

6639 Mt Forest Dr, San Jose, CA 95120

Education

Columbia University, Fu Foundation School of Engineering and Applied Science

West 116 St and Broadway,

New York, NY

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

Sept. 2021 - May 2025 (EXPECTED)

• Current coursework: Data Structures, Physics: Mechanics and Relativity, Multivariable Calculus, General Chemistry — Fall 2021

Skills

Languages/Frameworks Java, Python, C, HTML/CSS/JavaScript, PostgreSQL, T-SQL, React, GraphQL, Node.js, Flask, Azure

Creative/CAD Adobe (Photoshop, Illustrator, Premiere Pro), SolidWorks

Computer Microsoft (Word, PowerPoint, Excel, Outlook), Google Docs, LaTeX, Git

Experience ____

FIRST Tech Challenge — Robotics Competition

San Jose, CA

PROGRAMMING LEAD

Sept. 2016 - May 2021

- Designed a specialized path following algorithm for omnidirectional drivetrains; allowed the team's robot to navigate between waypoints quicker and score more points.
- Established a CAD-first workflow within a 15-member team after learning SolidWorks; created a script using the SolidWorks API to automate the rendering of parts added to version control, saving over four hours a week in documentation efforts.
- Coordinated a 4-member programming subteam; taught members the Gitflow Workflow for pursuing experimental features between competitions.
- Earned the Control Award at World Championships for reliable robot code and innovative computer vision algorithms.

Sleekfin — Real Estate Startup

San Jose, CA

FRONTEND DEVELOPER, GRAPHIC DESIGNER INTERN

- May 2020 Aug. 2020
- · Created a full mobile app mockup with 30+ screens in Adobe XD based off verbal descriptions of desired functionality.
- · Developed React Native components for user input; migrated existing codebase to use these new components, unifying the app's design language.

Hack on Track — STEM Education Nonprofit

San Jose, CA

CO-FOUNDER, HEAD OF CURRICULUM

June 2018 - May 2021

• Taught weekly coding workshops at community centers and low socioeconomic status schools using self-written lesson plans.

Projects _____

KiloDoc — Collaborative Typesetting Web App (www.kilodoc.com)

JAVASCRIPT, REACT, GRAPHQL, POSTGRESQL, NODE.JS, AZURE FUNCTIONS

Apr. 2020 - PRESENT

- Deployed a full-stack web app consisting of 40k lines of static React code, a GraphQL API running on Azure Functions, and a PostgreSQL database.
- Optimized the performance of editing very large cloud documents by designing a tree-like document storage format that allows for subtrees to be dynamically loaded/unloaded based on browser viewport.
- Handwrote SQL queries to speed up critical tasks, increase the reliability of concurrent requests, and enable complex operations like full-text search.
- · Set up a PDF generation pipeline that uses headless Chromium instances controlled by Puppeteer, listening to an Azure Service Bus Queue.

Foxtrot — Rapid 2D Spline Generation GUI

Java Oct. 2019 - Mar. 2020

- Built a 2D interface using Java Swing for editing splines by drag-and-dropping anchors; supports viewport x/y translation and zoom.
- Utilized by robotics team to rapidly create and test different robot paths for best efficiency; incorporated knowledge of 2D kinematics to display robot's forecasted velocity and acceleration.