

COMPLITED SCIENCE STUDENT

Education

Columbia University, Fu Foundation School of Engineering and Applied Science

New York, NY

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

Sept. 2021 - May 2025 (EXPECTED)

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

University of California, Berkeley

Berkeley, CA

PRE-COLLEGE SCHOLARS

June 2020 - Aug. 2020

• **Relevant coursework**: Computer Architecture — *Summer 2020*

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; sped up the prototype/build cycle and increased the team's reliance on 3D-printed parts.
- 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.