

Benedikt "Ben" Safigan

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U.S. Citizen – Authorized to work in the United States

SUMMARY

Sophomore Computer Science student at CU Boulder, minoring in Data Science and Computer Engineering, with hands-on professional internship experience in software development. Skilled across the full stack — from low-level embedded systems to React/Node.js web applications — with additional experience in data science tooling and DevOps. Proven ability to deliver in fast-paced, team-driven environments with a passion for working close to the software-hardware boundary.

PROFESSIONAL EXPERIENCE

Software Engineering Intern – EXACT ASSEMBLY

May 2023 – Aug 2023

- Collaborated with a cross-functional team of 6 engineers to build and ship software solutions for a tech contracting startup, contributing to 3 features across the product lifecycle.
- Diagnosed and resolved 15 bugs across 2 systems, reducing reported application errors and improving overall software stability.
- Accelerated onboarding to production codebase within 2 weeks, independently developing a functional PID-driven hardware cooling system by end of internship.

Programmer, Competition / Field Technician – VARSITY FIRST ROBOTICS TEAM 2996

Aug 2021 – May 2024

- Led software development for a team of 5, delivering a fully functional competition robot within a strict 6-week build season each year.
- Wrote, tested, and debugged 2,000 lines of autonomous and teleoperated robot code across 3 competition seasons, achieving awards for design ethos and team culture.
- Served as field technician at 6 regional competitions, troubleshooting and resolving hardware-software integration issues under high-pressure match conditions.

PROJECTS

[Spotigang \(not affiliated with Spotify\)](#) | *HTML, CSS, JavaScript, Bootstrap, Node.js, Express, Handlebars* *Sophomore Year, CU*

- Developed collaboratively in a team of 5 using Agile methodology, managing sprints and version control via Git to deliver a full-stack web application on a fixed academic deadline, deployed live on Render.
- Implemented secure user authentication and RESTful back-end routing using Node.js and Express, with Handlebars for server-side templating.
- Designed and styled a responsive front-end with HTML, CSS, JavaScript, and Bootstrap, integrating the Spotify API and PostgreSQL database for real-time music search functionality.

EDUCATION

University of Colorado, Boulder

May 2028

Bachelor of Science in Computer Science

Minors: Computer Engineering & Data Science – GPA: 3.49

Relevant Coursework: Algorithms, Data Structures, Software Development Methods & Tools, Introduction to Data Science with Probability & Statistics, Design & Analysis of Database Systems, Computer Systems

Coronado High School

Dec 2023

High School Diploma

Graduated top 3% of class – GPA 4.445 – Summa Cum Laude

SKILLS

Languages: C++, C, Java, Python, SQL, Assembly

Frameworks & Libraries: React, Node.js, Express, Handlebars, Bootstrap, NumPy, Pandas, REST APIs

Tools & Platforms: Git, GitHub, GitLab, CI/CD, VS Code, Linux, Windows, PostgreSQL, MongoDB, Render

Embedded & Hardware: RTOS, Microcontrollers, IoT Protocols, Hardware Simulation, Embedded Programming, Video Processing Using Embedded Coprocessor, Level 3 Remote Logging

Concepts: Full Stack Development, API Integration, Software Debugging, Data Science, Machine Learning, Data Visualization, Software Engineering & Development, Leadership & Project Management