

Bailey Say

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Objective

Eager 1st year CS UCSB student seeking experience in a wide variety of fields inside and outside computer science. My knowledge of a variety of programming languages and experience in frontend/backend web-development makes me adaptable to working in teams and solving unique problems.

Experience

Robot Programmer | FRC Robotics (Optix 3749)

September 2022 – June 2024

- Dedicated 40+ hours programming to enable robot functionality (double-jointed arm robot + elevator with arm robot + single-jointed arm robot)
- Developed efficient automatic aiming and firing of discs by implementing inverse kinematics and PID/Feedforward control theory in precise motor control and trajectory path generation, optimizing crucial parts of scoring during each match
- Regional finalists (2nd place) in 2023 and semifinalists (3rd place) in 2024

STEM Teacher | Grace All Star Academy

July 2024 – August 2024

- Taught STEM classes ranging from Python, Engineering, Data Science, 3D-Printing, etc.
- Provided classes of ~30 3rd-5th graders with opportunities to experiment with and observe real-world software and tools such as Excel Spreadsheets and 3D-Printers (Ender 3), allowing them to freely explore their interests in STEM subjects
- Independently created detailed lesson plans and materials to establish focused and fun learning environment

Projects

Connect AI

- Website providing AI-generated romance advice to users in the form of a friendly male or female persona to make the advice feel more personal (as more a personal project than an impactful project)

Built up Spring Boot backend with Rest API controller and connected to ChatGPT API to collect and process responses from the user (hosted on Docker image on AWS EC2 instance)

Scribble Script | SBHacks XI

- Website allowing users to scan handwritten code directly into a code editor with multi-language compilation support and AI syntax/formatting correction
- Developed Frontend API calls to HuggingFace Library, Anthropic AI, and custom code-compiler on Flask server (hosted on AWS EC2), efficiently handling user input (through file uploads and direct code editing)
- Best UI/UX Award for minimalistic and dynamic web user interface

Education

University of California, Santa Barbara

September 2024 - June 2027

Major: Computer Science | Minor: Mathematics

GPA: 4.0

Relevant Courses: Problem Solving with Computers I-III, Computer Organization and Logic Design, Discrete Mathematics, Data Structures and Algorithms I (by spring quarter)

Skills & abilities

- Computer Skills: Python, Java, C, C++, Haskell, HTML, CSS, JavaScript, TypeScript, React, Linux, Vim
- Frameworks: Spring Boot, Next.js, Jekyll, Flask