Hanson Lau

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Education

B.S. Computer Science, University of California, Davis   *Expected Graduation Jun 2025*

GPA: 3.9

- ***Relevant Courses:*** Software Development & Object-Oriented Programming C++, Data Structures, Database Systems, Computer Architecture, Operating Systems, Web Programming
- Dean's Honors List College of Letters and Science (Fall 2021, Winter 2023, Fall 2023, Winter 2024)

Experience

Lawrence Livermore National Laboratory - *Software Engineer Intern*   *Jun 2023 - Present*

- Developed API endpoints in .NET using AWS services (SNS, SQS, API Gateway), used Swagger for unit testing, and wrote Lambdas with TypeScript
- Designed event-driven architecture for batch processes and created scheduled events for tracking/resolving data discrepancies
- Automated infrastructure as code using YAML pipelines to create AWS resources such as least privilege IAM roles and Lambdas
- Upgraded ESLint for Angular that is triggered in Husky pre-commit hooks and pipeline integration

Juni Learning - *Computer Science Instructor*   *Oct 2022 - Apr 2023*

- Provided 1:1 instruction to students aged 8 to 18, adapting to their needs and interests across courses in Scratch, Python, PyGame, and Java
- Tracked student progress and delivered summary notes after each session

UC Berkeley ATDP - *Teaching Assistant Intern*   *Jul 2020 & Jul 2021*

- Remotely interned as a teaching assistant for "Building Blocks of Coding: Python," guiding middle school students with technical questions, critical thinking, and debugging
- Created Python programs to inspire students and support their project development

Projects

Button-Clicker Website (hansonklau.github.io/LearnProject)   *Dec 2021*

- Collaborated on a project using JavaScript and Firebase where users could create accounts to save and track click counts
- Built the application with HTML, CSS, Bootstrap, Node.js, Vanilla JavaScript, and Firebase

Karate Website (hansonlau.github.io/shorin-ryu)   *Jan 2021*

- Developed an interactive website with descriptions, pictures, and videos using HTML, CSS, and JavaScript; hosted on GitHub Pages

Personal Website (hansonlau.github.io)   *Oct 2020*

- Built a personal website showcasing hobbies, experience, and education with CSS animations, using HTML, CSS, and JavaScript; hosted on GitHub Pages.

Skills

C/C++/C#, HTML, CSS, Python, JavaScript/TypeScript, Java, Git, GitHub, Azure DevOps, CI/CD, AWS