# Allen Ho
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## Education

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| **The University of San Francisco** | BS in Computer Science (AI Concentration) |
| **Sogang University -** *Study Abroad in South Korea* | Expected Graduation: December 2025 |

**Relevant Skills:** C, D3.js, Java, Git, Next.js, P5, Assembly, C++, Typescript, React.js, Python, Javascript, HTML, CSS, PostgreSQL, Prisma

**Languages:** Cantonese, English, Korean, Japanese

## Work Experience

- ***Software Engineering Intern – Bushido.***                    *April 2025 – Present*
  - Implemented end-to-end feature development by designing new database schema fields with **Prisma**, updating backend APIs via **tRPC**, and integrating data into dynamic **React** components, improving application functionality and user experience.
  - Enhanced data accessibility and frontend performance by deploying a new feature pipeline that securely retrieved and displayed data from a **PostgreSQL** database to the client interface.
- ***Account Receivable Supervisor – San Francisco Fire Protection***        *May 2024 – August 2024*
  - Led a team to streamline and optimize accounts receivable processes, ensuring timely and accurate billing using **Excel**.
- ***Mentor – Provide Advocacy and Care for All***                *May 2021 – August 2021*
  - Provided feedback to advocates to allow them to reach a wider community, suitable niches, and connections with companies or organizations that could support their endeavors
- ***Web Developing Intern – Code Tenderloin***                *July 2021 – August 2021*
  - Created website with **Vanilla JavaScript, HTML, CSS** that was a small encyclopedia of a few animals
  - Built, styled, and deployed my website for other interns and the public to evaluate

## Projects

- ***Environmental Impacts in the 21st Century***
  - Developed an **interactive data visualization** platform using **D3.js** to analyze environmental trends.
  - Engineered **modular** and **reusable charting** components for scalability and maintainability.
  - Optimized **data processing** and rendering performance for large datasets.
  - Integrated regression analysis and **statistical modeling** to extract key insights.
- ***Cult Classic:*** movie recommendation engine
  - Collaborated with a partner to develop a personalized movie recommendation engine using **PyTorch**
  - Designed and implemented a neural collaborative filtering model with user and item embedding layers
  - Built custom training loops and optimized using **RMSE** and **Precision@K** evaluation metrics
- ***RISCV Emulator***
  - Developed a RISC-V emulator with **direct-mapped** and **set-associative cache simulation**
    - Implements **LRU replacement**, **hit/miss tracking**, and **memory access optimization**.
  - Developed using **C** and used **RISCV Assembly** for simulation

## Activities

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|---|---|
| - NLP URAP Berkeley Program | 2023-2024 |
| - Compsigh Club | 2023-Present |
| - Hack4Impact | 2024-Present |
|     - Vice President of Hack4Impact USFCA chapter | |