ALAN GUO

alanguo2026@u.northwestern.edu | (650) 714-3162 | 3453 Kenneth Drive, Palo Alto, CA 94303
github.com/alanguo04 | alantg.com | linkedin.com/in/alantguo

EDUCATION

Northwestern University, Evanston, IL   **Expected June 2026**
Bachelor of Arts, Major in Computer Science and Economics, Minor in Data Science, General Music
- Relevant Coursework: Fundamentals of Computer Programming (Seq. 1, 1.5, and 2), Data Structures, Computer Systems, Intro to AI, Data Visualization, Data Science with Python, Mathematical Fundamentals of Programming
- Cumulative GPA: 3.7/4.0 | Technological Fraternity KTP

Gunn High School, Palo Alto, CA   **August 2018 – June 2022**
- Cumulative GPA: 4.0/4.0 | SAT Score: 1540 | Nation Merit Finalist | AP Scholar

RELEVANT EXPERIENCE

Ridge Security, Milpitas, CA   **June 2024 – Present**
Software Engineer Intern
- Worked as part of the platform team and developed the RidgeCompass generative AI service, a portal allowing users to upload vulnerability reports and transform them with customization, translation, compliance with standards
- Created Flask program in an AWS EC2 instance, integrating with AWS S3, API Gateways, and Lambda
- Resolved platforming bugs and support tickets for RidgeBot versions, performing localization for international clients, translating 20,000+ lines of JSON values into several languages with the support of GPT API and Python scripting

NU DISC (Develop + Innovate for Social Change), Evanston, IL   **January 2024 – May 2024**
Software Engineer
- Fixed a chrome extension for nonprofit organization Kids in Danger, working with AWS, API calls, and fullstack development using Flask, BeautifulSoup, and SBERT to display recall data on Amazon products for consumers
- Reduced database fetching by several seconds for API calls by reworking the algorithm for product and recall matching
- Collaborated on Figma mockups and produced prototypes with alternative frameworks including Node.JS

Northwestern, Evanston, IL   **September 2023 – June 2024**
Peer Mentor
- Assisted professor in CS 110 Introductory Programming by helping with grading, answering questions, and holding office hours for class of over 100 students over 10+ assignments and quizzes throughout the quarter
- Led weekly discussion section with 15 students going over self-made programming questions to help them prepare for quizzes and homework and communicated progress of students with professor and TA's in weekly meetings

PROJECTS

Baseball Pitching Analysis – *Rstudio, Ggplot*   **March 2024**
- Generated graphics with GgPlot depicting pitch data in various mediums using large data from BaseballSavant database to find conclusions of pitching patterns from MLB players, cross-referencing through innings and seasons

Stock Market Web App – *Python, Dash, Sklearn*   **January 2023 – April 2023**
- Built a live-updating webapp using Dash that combines frontend and backend to plot various graphs based on different stock market variables, and predict future stock expectations training on a user-picked time constraints using Sklearn

SQL Environment – *C, C++*   **January 2023 – April 2023**
- Programmed a fully-functional SQL environment using C and C++ as part of CS 211 class, handling user input and text files, queries, and edge cases. Deals with memory allocation accordingly so the program never crashes

Instacart Accessibility Chrome Extension - *Javascript*   **May 2020 – July 2020**
- Designed a chrome extension to help seniors navigate through websites like Instacart by guiding them through the purchasing process, conducting market research by interviewing 10+ seniors and achieving over 80+ survey responses
- Underwent the entrepreneurial process from mockups to logistics, evaluating viability and achievability of 5+ products, presenting many times throughout the design process, meeting with peer advisors and mentors to get feedback

SKILLS & INTERESTS

Languages: Python, HTML/CSS/Javascript, Typescript, C, C++, Java, R
Technologies/Frameworks: Flask, Dash, Node.JS, React.JS, Next.JS, Tailwind CSS, Jinja2, Bootstrap, AWS, Git, Sklearn
Additional Interests: Tennis, Guitar, Piano, Language Learning, Running