

WILLIAM G. VUONG

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Technical Skills

Languages/Tools: Python, C, C++, JavaScript, HTML, CSS, Typescript, Dart, Flutter, VSCode, Github, Figma, MS Word, Jupiter, Clerk, Firebase, Prisma, Vercel, Firebase, SQLite

Libraries: Numpy, Pandas, Seaborn, Matplotlib, Flask, React, Node.js, Pytorch

Personal Projects

Emoticon Twitter Web Application | *Javascript, Typescript, CSS, React, Node.js, T3, Prisma, Clerk, Vercel, PlanetScale*

- Developed a full-stack social web application with **Javascript, Typescript, React, Node.js** and **CSS**, with **PlanetScale** as a relational database.
- Implemented a **T3** stack that incorporates core language pieces and transitions efficiently with a backend held on **Clerk API** that incorporates **Prisma** schema to declare database tables in a human-readable display.
- Deployed the application to a live development environment using **Vercel**, ensuring seamless real-time updates.

Spotify Data Personality Visualizer | *Python, HTML, CSS, Spotify API, Flask*

- Developed a data visualizer with **Python, HTML**, and **CSS** that assigns unique personas based on the user's pulled data.
- Implemented a **Flask** web application framework that hosts and creates a custom server that holds user requests and responses through a **RESTful API**.
- Utilized **Spotify API** to proxy user log-ins directly from Spotify via **OAuth 2.0** to retrieve the current session's listening data, song features, and access token, which refreshes upon expiration.
- Coordinated effectively in a team of **3** skilled members, completing initial development within a span of 10 hours to submit to SacHacks 2023.

Campus Gym Registration App | *C, C++, Dart, Flutter, Firebase*

- Developed a full-stack user gym app with **C, C++, Dart**, and **Flutter** that authenticates users via randomly generated QR codes and displays a real-time busy meter to estimate the gym's current capacity.
- Implemented a relational backend database with **Firebase** that deploys cloud commands and verifies human users with **reCAPTCHA**.
- Coordinated effectively in a team of **4** skilled members, completing initial development within a span of 16 hours to submit to HackDavis 2023.

Diabetes Risk Predictor | *Python, Numpy, Pandas, Scikit-Learn, Seaborn, Pickle, Flask, HTML, CSS*

- Developed and trained a diabetes risk predictor with **Python, HTML**, and **CSS** that utilizes 4 trained and tested binary classification models (Logistic Regression, SVM, Random Forest, and XGBoost) to predict a user's risk of diabetes depending on their various lifestyle attributes.
- Implemented a **Flask** web application framework that requests user lifestyle information and returns a diabetes prediction after entry.
- Led a team of **4** skilled members in developing the utilized predictor models and managed the production of the project while coordinating team engagement over an 8 week span..

Non-Technical Experience

Restaurant Server | *Yang Kee Dumpling, Davis, CA*

- Assisted customers with ordering needs with an open attitude, resulting in an efficient and enjoyable customer experience.
- Promptly addressed customer concerns or dissatisfaction to mitigate any escalation inquiries.
- Worked effectively in a team, utilizing **strong communication skills** to coordinate tasks and support members, consistently receiving positive feedback from customers and management.
- Proactively identified and resolved issues that arose, employing **critical thinking** and **problem-solving skills**.

Education

University of California, Davis | *Davis, CA*

Expected in June 2024

B.S. in Computer Science

Relevant Coursework: Operating Systems, Data Structures, OOP, Machine Learning, Algorithm Design, Computer Architecture, Human-Computer Interaction, Agent-Based Modeling, Linear Algebra, Discrete Mathematics, Probability & Statistics

Extracurriculars: Google Developer Student Club, Davis CS Club, Vietnamese Student Association, Electronic Dance Music Club