

# WILLIAM G. VUONG

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## Technical Skills

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**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

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[Portfolio Website](#) | *JavaScript, HTML, CSS, React, GSAP, SplitTextJS, EmailJS, Vercel*

- Developed a **React** portfolio web application with **JavaScript**, **HTML**, **CSS** to display resume work and web development skills.
- Implemented various animations that are stationary or triggered on hover with **GSAP**, **SplitTextJS**, and **CSS** libraries and an email contact form using **EmailJS**.
- Deployed the application to a live 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.
- Collaborated 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, Back4App*

- 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 **Back4App** that deploys cloud commands and verifies human users with **reCAPTCHA**.
- Collaborated 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 lifestyle attributes.
- Implemented a **Flask** web application framework that requests user lifestyle information and returns a diabetes prediction after entry.
- Coordinated a team of **4** skilled members with no prior knowledge of Machine Learning 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

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**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.
- Coordinated effectively in a team, utilizing **strong communication skills** to coordinate tasks and support members, consistently receiving positive feedback from customers and management.
- Increased restaurant revenue by 5% through accreting regular customers and achieving high customer satisfaction.

## Education

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**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