William Kwon

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EDUCATION

Purdue University   West Lafayette, Indiana
*B.S. in **Computer Science***   *May 2025*

- **Relevant coursework:** Data Structures & Algorithms, Software Engineering, Computer Architecture, Systems Programming, Discrete Math, Linear Algebra, Multivariate Calculus

TECHNICAL SKILLS

Languages: C/C++, JavaScript, Java, Python, Swift, SQL, x86-64 Assembly, Bash Scripting
Tools: React.js, Express.js, Node.js, MongoDB, AWS, Google Firebase, Docker, DirectX SDK, Git

WORK EXPERIENCE

Sledgehammer Infosystems, Inc.   West Lafayette, IN
Software Developer Apprentice   *May 2023 – Aug 2023*

- Developed a **dynamic graphics control** for event signage and overlays of media assets.
- Implemented a desktop and a web interface to respectively handle the controls and display using **Electron.js**.
- Used **Express.js** to create a server side API layer to manage asset data and handle HTTP requests.

SCALE (Scalable Asymmetric Lifecycle Engagement)   West Lafayette, IN
Software Test Engineer Intern   *Jan 2024 – PRESENT*

- Automate **software testing** within the **CI/CD pipeline** for seamless integration with hardware components.
- Collaborate with other members of the SoCET (**system-on-chip** extension technologies) team.

Purdue Hello World   West Lafayette, IN
Web Developer   *Feb 2023 – PRESENT*

- Collaborated with a team of 6-8 developers to design and create the website for the Purdue Hackathon.
- Developed the Schedule & FAQs pages following different yearly themes using **React.js** and **Bootstrap CSS**.
- Guided event participants (300+) regarding technology during the hackathon.

Purdue Computer Science   West Lafayette, IN
Course Instructor   *Jan 2024 – PRESENT*

- Led and taught weekly lectures on **iOS development in Swift** following the **MVC Design pattern**.
- Managed a group of undergraduate teaching assistants for the course.
- Guided & assisted the enrolled students in the class as needed.

Undergraduate Teaching Assistant   *Jun 2023 – Dec 2023*

- Educated students on the concepts of **OOP in Java**.
- Guided students in the course (3,000+) through class **lab sessions and office hours**.
- Monitored and resolved students' inquiries on the class discussion page.

PROJECTS

MuQu (Music Queuer) - *Hackathon AWS Award Winner* | *GitHub*

- Developed a Youtube video queuer that syncs the feed to all users on the platform.
- Created the frontend using **React.js** and the **YouTube Player API**.
- Managed asset-data and the syncing capabilities using **AWS Services: API Gateway, Lambda, DynamoDB**.

Racing Simulator | *GitHub*

- Developed a racing simulator that mimics the movement of cars in **C++**.
- Created a desktop window and handled user input using the **Win32 API**.
- Structured the core logic upon the 3D graphics pipeline built using **Direct3D**.

Fantasy Bets | *GitHub*

- Led a team of two developers to develop an app that allows users to create any custom bet among other users.
- Implemented the application with **React Native** and **Expo** build tools.
- Created the back-end with **Node.js** and linked **Google Firebase** to manage synchronous data.