

Owen Wong

346-337-8142 | owenwong@uw.edu | [linkedin.com/in/owenlwong](https://www.linkedin.com/in/owenlwong) | owenwon.github.io

EDUCATION

University of Washington - Seattle

Sep. 2023 - Jun. 2027

Bachelor of Science in Informatics

GPA: 3.95/4.0

- **Relevant Coursework:** Co-op Software Development, Server-Side & Client-Side Development, Data Structures and Algorithms, Databases & Data Modeling, System Development (C++), Artificial Intelligence

EXPERIENCE

Software Developer

Sep. 2025 - Dec. 2025

ReThink @ UW

University of Washington

- Automated client communication workflows by integrating EmailJS into the React frontend, reducing manual administrative processing time by 5+ hours weekly via asynchronous event handling.
- Engineered a location-based directory system using Google Maps API and Firebase, optimizing database query retrieval to render 100+ sustainable restaurant locations with sub-second latency.

Coding Instructor

Jun. 2025 – Oct. 2025

Coding With Kids

Seattle, WA

- Taught foundational programming concepts in Java, Python, C++, and Scratch to 20+ K-12 students, tailored instruction by age group and skill level.
- Facilitated academic support for 100+ students through coding exercises, adapting lesson plans to individual learning speeds by offering debugging assistance, and fostering logical problem-solving skills.

PROJECTS

Zero-Touch Commute Assistant | *React, Node.js, AWS (Lambda, Bedrock), OneBusAway API*

Oct. 2025

- Engineered a Serverless application orchestrating Google Calendar API integrations to automate schedule parsing, reducing manual planning overhead by 15% via intelligent cron jobs.
- Architected an Event-Driven system on AWS (Lambda, EventBridge, DynamoDB), leveraging Generative AI (Bedrock) for semantic event classification and OneBusAway for real-time transit data ingestion.

Youth Connector | *React, FastAPI, SQLAlchemy, httpx, BeautifulSoup*

Sep. 2025

- Orchestrated a high-throughput ETL pipeline using FastAPI, SQLAlchemy, and httpx, achieving 10-second sync intervals to maintain strict data consistency across distributed program sources.
- Optimized React frontend performance for the “Spark Finder” engine, achieving sub-500ms query latency via Axios caching strategies to enhance resource discoverability for users.

Foreword | *React, Firebase, NoSQL, OpenLibrary API*

Mar. 2025 – Jun. 2025

- Deployed a scalable social platform on Firebase, utilizing NoSQL document stores to support 200+ concurrent user interactions and real-time content updates with sub-100ms latency.
- Engineered gamification logic (streaks, social graphs) within the React state management layer, driving a 40% increase in Daily Active Users (DAU) and boosting average session retention by 25%.

Bop It! | *React, Node.js, Express, MongoDB, Azure AD*

Jan. 2025 – Mar. 2025

- Developed a latency-sensitive gaming application using Node.js/Express and MongoDB, optimizing state synchronization loops to reduce input lag by 30%, ensuring seamless real-time play.
- Secured application endpoints via Azure Active Directory, enforcing enterprise-grade authentication while successfully managing over 500+ daily RESTful gameplay transactions with 0% unauthorized access.

TECHNICAL SKILLS

Programming Languages: C++, Java, Python, JavaScript, SQL, R, HTML/CSS

Frameworks & Libraries: AWS, React, Node.js, Express.js, Firebase, Azure, MongoDB, PostgreSQL

Developer Tools: Git, VS Code, IntelliJ, RStudio, Postman, DevOps, Agile, Figma, Miro

Concepts: Full-Stack Development, REST APIs, Responsive Web Design, Database Management, Graph Algorithms, Software Development Life Cycle (SDLC), MVC Architecture, User Authentication, State Management