

# Owen Wong

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## EDUCATION

<b>University of Washington - Seattle</b> <i>Bachelor of Science in Informatics</i>	Sep. 2023 - Jun. 2027 GPA: 3.95/4.0
<ul style="list-style-type: none"><li><b>Relevant Coursework:</b> Co-op Software Development, Server-Side &amp; Client-Side Development, Data Structures and Algorithms, Databases &amp; Data Modeling, System Development (C++), Artificial Intelligence</li></ul>	

## EXPERIENCE

<b>Software Developer</b> <i>ReThink @ UW</i>	Sep. 2025 - Dec. 2025 <i>University of Washington</i>
<ul style="list-style-type: none"><li>Automated client communication workflows by integrating EmailJS into the React frontend, reducing manual administrative processing time by 5+ hours weekly via asynchronous event handling.</li><li>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.</li></ul>	
<b>Coding Instructor</b> <i>Coding With Kids</i>	
Jun. 2025 – Oct. 2025 <i>Seattle, WA</i>	

• 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

<b>Zero-Touch Commute Assistant</b>   <i>React, Node.js, AWS (Lambda, Bedrock), OneBusAway API</i>	Oct. 2025
<ul style="list-style-type: none"><li>Engineered a Serverless application orchestrating Google Calendar API integrations to automate schedule parsing, reducing manual planning overhead by 15% via intelligent cron jobs.</li><li>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.</li></ul>	
<b>Youth Connector</b>   <i>React, FastAPI, SQLAlchemy, httpx, BeautifulSoup</i>	
Sep. 2025	
<ul style="list-style-type: none"><li>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.</li><li>Optimized React frontend performance for the “Spark Finder” engine, achieving sub-500ms query latency via Axios caching strategies to enhance resource discoverability for users.</li></ul>	
<b>Foreword</b>   <i>React, Firebase, NoSQL, OpenLibrary API</i>	
Mar. 2025 – Jun. 2025	
<ul style="list-style-type: none"><li>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.</li><li>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%.</li></ul>	
<b>Bop It!</b>   <i>React, Node.js, Express, MongoDB, Azure AD</i>	
Jan. 2025 – Mar. 2025	
<ul style="list-style-type: none"><li>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.</li><li>Secured application endpoints via Azure Active Directory, enforcing enterprise-grade authentication while successfully managing over 500+ daily RESTful gameplay transactions with 0% unauthorized access.</li></ul>	

## 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