

Khang Minh Bui

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EDUCATION

Washington State University B.S. Computer Science	<i>Expected: May 2026</i> GPA: 3.87
Seattle Central College A.S. Computer Science	<i>Graduated: June 2023</i> GPA: 3.96

EXPERIENCE

<i>Full Stack Engineer</i> AgAID Institute & WSU AgWeatherNet	<i>May 2025 – Present</i> Pullman, WA
<ul style="list-style-type: none">Built and maintained Flask/MySQL/InfluxDB APIs and a React.js UI for ranch and IoT device management, enabling reliable data tracking, efficient farm operations, and increasing user engagement by 37%.Developed a heat stress visualization and interactive environmental monitoring tools to protect livestock health with timely alerts.Rebuilt the WSU AgWeatherNet website with Go backend and React.js frontend, and created an Express.js microservice for IDW interpolation, delivering fast, accurate real-time maps of air temperature, soil moisture, and precipitation.	
<i>AI & Backend Engineer</i> Pathcrusher Interactive, Inc.	<i>Mar 2025 – Present</i> Remote

<i>Frontend Developer Intern</i> AVOLTA, Inc.	<i>Nov 2023 – July 2024</i> Remote
<ul style="list-style-type: none">Built a cross-platform React Native mobile app with real-time car security alerts and secure user authentication, contributing to a 40% increase in user engagement.Reduced API data fetch latency by 33%, improving UX responsiveness, by optimizing frontend-backend data flow.Worked on a 5-person team to align UI/UX design with technical constraints, resolving an average of 10+ UI bugs per sprint to ensure high-quality performance across both iOS and Android.	

PROJECTS

<i>AgWeatherNet Website — React.js, Go, Express.js, MySQL, InfluxDB</i>	
<ul style="list-style-type: none">Rebuilt the WSU AgWeatherNet website with a modern React.js and Go, integrating an Express.js microservice for IDW interpolation to process weather-station data efficiently.Developed interactive maps and dashboards to display real-time air temperature, soil moisture, and precipitation, improving operational visibility and stakeholder engagement across the Pacific Northwest.	

<i>WeatherSonde — React Native, TypeScript, Java (Native Modules), SQLite</i>	
<ul style="list-style-type: none">Led mobile development using React Native and SQLite for a drone-based environmental monitoring app, enabling orchard farmers to detect temperature inversions and protect their fruit trees from frost damage.Built custom Java native modules for USB serial communication to transmit real-time GPS, temperature, humidity, and pressure data from drone hardware to the mobile app, where inversion conditions are computed.	

<i>Sypholingo — React.js, TypeScript, Express.js, Vite, OpenAI, SunoAI</i>	
<ul style="list-style-type: none">Built an AI-powered language learning app using React.js and Express.js generating original songs in users' target languages based on preferred genres.Integrated SunoAI API for music generation and OpenAI for translation and grammar analysis, reinforcing grammar concepts through interactive audio playback.	

ACHIEVEMENTS

<i>CrimsonCode Hackathon 2025, Best GenAI Winner & Main Track Winner (https://devpost.com/software/sypholingo)</i>	
<i>AgAID Digital AgATHON 2025, 2nd place Winner (https://agaid.org/digital-agathon-2025/)</i>	
<i>AI For Change Hackathon 2024, Winner (https://devpost.com/software/nutriscan-z4owgh)</i>	

TECHNICAL SKILLS

Programming Languages: TypeScript, JavaScript, Python, Java, C#, C++, SQL	
Frameworks & Technologies: React.js, React Native, Next.js, Node.js, Express.js, NestJS, ASP.NET Core, Flask, FastAPI	
Databases & ORMs: PostgreSQL, MySQL, MongoDB, SQLite, Sequelize, TypeORM	
Tools, Platforms, & Cloud Services: Linux, AWS, Docker, Git, GitHub, GitLab, Render, Vercel, Netlify.	