

# Caleb Hu

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## EDUCATION

<b>University of Washington</b> <i>Bachelor of Science in Computer Science; GPA: 3.84/4.00</i>	Expected Jun. 2027 Seattle, WA
• Relevant Coursework: System and Software Tools, Data Structures and Parallelism, Hardware and Software Interface, Discrete Mathematics, Linear Algebra, Statistics and Probability	

## EXPERIENCE

<b>Software Engineer Intern</b> <i>Mastertech.ai, a VC-backed startup reshaping auto-repair</i>	Jul. 2025 – present Kirkland, WA
• Built end-to-end prompt template feature to retrieve and store vehicle recall data using Redux/TypeScript and NHTSA/RESTful API; implemented an auto-generated history log to display recalls and recommendations.	
<b>Research Assistant - Computer Vision, AR/VR</b>	Jun. 2025 – present
<i>Makeability Lab</i>	
• Collaborating with Prof. Jon Froelich, PhD student Jaewook Lee, and Google researchers to develop PreviewAR, an image-to-3D tool for e-commerce furniture images; using Unity and Hunyuan 3D-2 for 3D asset generation.	Seattle, WA
<b>Research Assistant - Natural Language Processing (NLP)</b>	Jun. 2024 – Oct. 2024
<i>University of Washington Medical Center, Kang Oncology Lab</i>	
• Under Dr. John Kang, applied 95,000+ National Cancer Institute (NCI) research abstracts to Python language model BERT to analyze NCI funding trends and granularize research topics within field of radiation oncology.	Seattle, WA
• Researched 3 programming techniques to implement Term Frequency-inverse Document Frequency (TF-IDF), a Python modeling technique to assist BERT in categorizing word importance by number of occurrences in abstract.	

## LEADERSHIP

<b>Associate Director of External Affairs</b> <i>University of Washington Consulting Association (UWCA)</i>	Mar. 2025 – present
• Led club website revamp, increasing number of unique visits by 176% (over 30 days) by implementing SEO.	
• Expanded consulting opportunities for 40+ members by building partnerships with leaders from NVIDIA, Pinterest, and Accenture.	Seattle, WA

## PROJECTS

<b>CodeStepByStep (CSBS)</b>   <a href="https://codestepbystep.com">codestepbystep.com</a>   <i>TypeScript, MySQL, Java EE</i>	Jul. 2025 – present
• Building GPT-powered teaching assistant chatbot with RAG (Retrieval Augmented Generation) to offer coding practice support for 95,000+ university, high school, and middle school students and instructors nationwide.	
• Created a TypeScript frontend countdown timer to improve user experience during submission limits.	
<b>Nick Blendz</b>   <a href="https://nick-blendz.com">nick-blendz.com</a>   <i>Next.js, TypeScript, Supabase, Clerk, AWS</i>	
• Developed a full-stack web application/portfolio for Nick Blendz, a barber based in Renton with 100+ clients.	May 2025 – Jul. 2025
• Built automated scheduling feature storing client and event data in Supabase with Drizzle ORM, syncing client calendar using Google Calendar API, and hosting the website on Amazon Elastic Compute Cloud (EC2).	
• Created internal client dashboard with customizable availability and event details, using Clerk for authentication.	
<b>Yoka Tea</b>   <i>HTML, CSS, JavaScript, React.js, Firebase</i>	Jan. 2025 – May 2025
• Developed a full-stack web application for Seattle boba shop to digitize brand, boba and merchandise orders.	
• Integrated Firebase backend services for user sign-in/authentication, payment processing, and order tracking.	

## TECHNICAL SKILLS

**Languages:** Java, Python, JavaScript, TypeScript, HTML/CSS

**Frameworks:** Next.js, React.js, Tailwind CSS, Flask, JUnit, Java Swing

**Developer Tools:** Git, Jupyter Notebook, Google CoLab, VS Code, PyCharm, Eclipse, Supabase

**Libraries:** pandas, sklearn, NumPy, Matplotlib, Firebase, Clerk, Drizzle ORM

**Currently Learning:** Docker, AWS Lambda, Stripe.js, Spring Boot