

Caleb Hu

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EDUCATION

University of Washington

Seattle, WA

Bachelor of Science in Computer Science; GPA: 3.82/4.00

Expected Jun. 2027

- Relevant Coursework: System and Software Tools, Data Structures and Parallelism, Systems Engineering, Distributed Systems, Introduction to Algorithms, Hardware and Software Interface, Discrete Math, Linear Algebra

EXPERIENCE

Research Assistant - Computer Vision, AR/VR

Jun. 2025 – present

Makeability Lab

Seattle, WA

- Under Prof. Jon Froelich and Jaewook Lee, incorporating retrieval augmented generation (RAG) using image metadata to enable LLM-based 2D-to-3D photorealistic rendering.

Technical Consulting Extern

Mar. 2025 – Jun. 2025

Autodesk

Seattle, WA

- Worked in 3-person team to research/devise agentic AI chatbot solution to improve Autodesk communications.
- Evaluated alternate robotic process automation (RPA) solutions for compatibility, scalability and cost.
- Presented final recommendation, Figma mockup, and implementation plan to 12 Autodesk executives.

Research Assistant - Natural Language Processing (NLP)

Jun. 2024 – Oct. 2024

University of Washington Medical Center, Kang Oncology Lab

Seattle, WA

- 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.
- 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.
- Documented meeting minutes for 5+ project meetings, consulting 3 internal teams to support research goals.

LEADERSHIP

Associate Director of External Affairs

Mar. 2025 – present

University of Washington Consulting Association (UWCA)

Seattle, WA

- Led club website revamp, implementing SEO and increasing number of unique visitors 176% (over 30 days).
- Oversaw projects through cultivating relationships with industry leaders from NVIDIA, Pinterest, and Accenture.
- Strengthened deliverables for Australian Sports Technological Network (ASTN) and Olly Timing software implementation project, providing quality control and mentorship while maintaining strong client relationships.

PROJECTS

Nick Blendz Website | *Next.js, TypeScript, Tailwind CSS, AWS RDS, PostgreSQL*

May 2025 – Jun. 2025

- Developed a full-stack web application/portfolio for Nick Blendz, a barber based in Renton with 30-40 clients.
- Built automated scheduling feature, storing client data using Amazon Web Services relational database and syncing appointment with Nick using Google Calendar API.

Yoka Tea Website | *HTML, CSS, JavaScript, React.js, Firebase*

Jan. 2025 – May 2025

- Developed a full-stack web application for Yoka Tea to digitize brand presence, boba and merchandise orders
- Collaborated with a 10-person team of full-stack developers and designers
- Implemented front-end components using React.js Spring to enable dynamic UI and animation effects
- Integrated back-end services with Firebase for user sign-in/authentication, payment processing, and order tracking

TECHNICAL SKILLS

Languages: Java, Python, C, JavaScript, HTML/CSS

Frameworks: React.js, Flask, JUnit, JFrame, JPanel

Developer Tools: Git, Jupyter Notebook, Google CoLab, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse

Libraries: pandas, sklearn, NumPy, Matplotlib, SQLite, Firebase, Unity Game Engine

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