

Ian Chiu

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EDUCATION

University of Washington

Bachelor of Science, Informatics – Data Science

June 2026

Seattle, WA

Relevant Coursework: Data Structures and Algorithms, Scientific Computing in Applied Mathematics, Research Methods, Client-Side Development, Database and Data Modeling, Core Methods in Data Science

WORK EXPERIENCE

Amazon

Software Development Intern

Seattle, WA

June 2025 – September 2025

- Independently designed and delivered auto scaling system for transportation routing workloads; projected to save \$2M annually by dynamically adjusting capacity from 0 to 32 EC2 instances based on real-time demand
- Built an internal reservations service with a tiered priority queue and API integrations, streamlining allocation of 24 transportation fleets for team of 12 engineers and reducing scheduling coordination time
- Owned full development lifecycle: authored low-level design docs, implemented infrastructure and business logic, wrote automated tests, and deployed via CI/CD pipelines with monitoring and alerting
- Partnered with senior engineers to refine requirements and implemented scalable cloud solutions using AWS CDK, Lambda, EventBridge, Step Functions, DynamoDB, EC2, and CloudWatch

University of Washington eScience Institute

Data Science Research Assistant

Seattle, WA

January 2024 – Ongoing

- Repurposed and extended existing neural network models into an open-source Python library, adding post-processing utilities, model training pipelines, and pre-trained model downloads for snow coverage prediction
- Benchmarked and fine-tuned U-Net, YoloV8, SAM 1.0, and SAM 2.0 architectures to support river segmentation
- Authored documentation and contributed to a research paper describing the library's design and applications

Dignifi

Full Stack Software Engineering Intern

Seattle, WA

September 2024 – December 2024

- Designed a matching algorithm based on a tag schema to better connect formerly incarcerated individuals with service providers
- Developed front-end features in React and integrated them with back-end services in Node.js and a Firebase NoSQL database
- Collaborated with PMs, designers, and engineers to refine requirements, improve usability, and deliver a scalable full stack web application

Project Kiwi

Back-End Development Intern

Seattle, WA

July 2024 – September 2024

- Engineered Python back-end functionality using coordinate geometry to identify areas of interest for customer-facing imagery tools
- Restructured data formats to optimize input handling, improving computational efficiency by over 80%
- Deployed to production and collaborated with a senior engineer to test and validate solutions for reliability

PROJECTS

PyPlanetSCA Python Library - eScience Institute

Project Link: <https://github.com/DSHydro/PyPlanetSCA-Python-Library>

Seattle, WA

January 2024 - September 2024

- Organized efficient workflow and distribution on Github to ensure timely product delivery
- Created fully functioning Python library from machine learning models designed to predict snow coverage areas
- Leveraged Github, Cryocloud, PyPi and Hugging Faces to construct and store model and assets
- Implemented functionality to work with Planet satellite imagery data

Triage - Dubhacks Hackathon

Project Link: <https://triage-relief.vercel.app/>

Seattle, WA

October 2024 - October 2024

- Award winning disaster relief web app utilizing Python and Next.js chosen over 170+ other projects
- Contains live news updates, LLM chat, and computer vision damage assessment models
- Trained U-Net and fine tuned SAM 2.0 on 10,000 building test images for rooftop detection

SKILLS

- Programming:** Java, JavaScript, Typescript, Python, HTML, CSS, R, SQL, Markdown, Dart
- Software:** Tableau, Matlab, QGIS, Tensorflow, Jupyter, Firebase, Google Cloud, AWS, React, Node.js, Flutter
- Mandarin, Adaptability, Communication, Responsibility, Leadership, Attention to Detail, Project Management