

Anshul Shah

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EDUCATION

University of Washington

Seattle, WA

Bachelor of Science in Computer Science | GPA: 3.89

Sept 2023 – June 2027

Coursework: Data Structures, Algorithms, and Parallelism, Software Design, Probability & Statistics in Computing, Machine Learning, Intro Object Oriented Programming I&II, Linear Algebra, Discrete Math, Wireless Communication

TECHNICAL SKILLS

Language/Framework: Java, Python, JavaScript/TypeScript, HTML/CSS, PHP, Rust, C, Node.js, React

Tools/Technologies: WebAssembly, LaTeX, Jupyter Notebooks, Web Sockets, REST APIs, Git, Docker, Unit Testing

Libraries: NumPy, Matplotlib, tensorflow, transformers, scikit-learn, PyAudio, hashlib, nltk, Pytorch, Express, Flask

EXPERIENCE

Amazon (AWS)

May 2025 – August 2025

Software Development Engineer Intern

Seattle, WA

- Built a serverless, AI-powered system to automate onboarding new AWS resource types (RTs) to AWS Config — a **day-long manual process now 2 minutes (150× speedup)**. Invoked via ApiGateway endpoint, outputs in Dynamo, S3
- Grounded Bedrock LLMs in documentation to author XML specs (each with dynamic tags/attributes and complex inline JSLT transformations) for mapping describe APIs into AWS Config configuration items.
- Created feedback loop with existing tests to let LLM self-correct until specs passed. On **30 RTs, 100% test accuracy**.

Dartmouth Health

June 2024 – Sept 2024

Machine Learning Intern

Hanover, NH

- **Researched Natural Language Processing** applied in **spinout startup** Augmet AI (clinical genomic analysis software)
- Designed a BERT based model with an extra dense layer to do Named Entity Recognition (NER) of phenotypes in clinical notes using transformers and PyTorch. Trained on hundreds of Dartmouth clinical notes.
 - * **Replicated and improved the state-of-art** PhenoBCBERT: used IOB labeling for more reliable annotations, window+striding for larger context, and 2nd finetuned BERT for normalization to HPO phenotype IDs.
 - * Evaluated by a geneticist to be **doing 80% of the work of human annotators**
- Deployed Flask microservice/API to serve model, with React **user-friendly annotation interface** for error correction

Dubhacks NEXT

June 2024 – Present

Director of Sponsorships

Seattle, WA

- Organize UW's student-run startup incubator; our startups have **raised \$1M cumulatively**, multiple at YCombinator
- Lead sponsorship outreach and meetings for **10+ companies**, secured **\$15K from Amazon and Hashicorp** for 2024
- Source mentors & speakers, including **director at Founders Co-op, CTO of HashiCorp**, networking at startup events

UW Sensor Systems Lab

Nov 2024 – May 2025

Paid Undergraduate Research Assistant

Seattle, WA

- Predicting wireless signal strength of a lunar rover for a **NASA and Astrobotic funded project** w/ Prof. Josh Smith
- **Created and tuned hyperparameters of a Monte-Carlo-like metric** randomly sampling ray traces in **NVIDIA Sionna** to compare the wireless propagation properties of procedurally generated and real lunar terrains
- Conducted a comprehensive literature survey of electromagnetic properties of lunar regolith, experimentally & mathematically translating findings into Sionna specific parameters, increasing path loss **accuracy by ≈ 20dB**

PROJECTS

Renaissance Research | Python, Beautiful Soup, AWS Bedrock, Gemini, Pydantic, Next.js

April 2025

- Created software that scrapes old/niche research papers, and uses **multiple agents** through Bedrock Batch Processing and Gemini to evaluate work on potential novel modern day applications, with a Next.js interface for viewing results
- Won **top prize at Caltech Hackathon (2x Title Track Winner, \$25,000 OpenAI credits, NVIDIA RTX 5070 GPUs)** and received confirmation from judge familiar with old Caltech theses that our ratings were accurate

Roulette | Javascript, Webassembly, Rust, HTML, CSS

Jan 2024 – June 2024

- Built service for websites to **monetize by lending visitors' compute** for large parallel Monte Carlo Simulations
- Sped up simulation code **20x faster than JavaScript** with WebWorkers running WebAssembly compiled from Rust
- Showcased project with live demo at Dubhacks NEXT (competitive startup incubator) demo day