

HUNG PHAN

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EDUCATION

University of Utah

Bachelor of Science in Computer Science and Applied Math – **GPA: 3.993/4.0**

Salt Lake City, UT

Aug. 2022 – May 2026

EXPERIENCE

Software Engineer Intern

Brevium Corporation

May 2025 – Aug 2025

American Fork, UT

- Developed and deployed **two production features** for Brevium's Campaign system, improving patient outreach workflows and reducing operational costs for medical practices by an estimated **15–20% per campaign**.
- Designed and implemented a **text classification pipeline** using KNN with Python and SQL, streamlining data integration workflows and reducing manual processing effort by approximately **85%**.
- Led **two internal engineering training sessions** on campaign logic and testing best practices, improving code quality, onboarding efficiency, and shared team understanding of the system.

Computer Science Teaching Assistant

Kahlert School of Computing, University of Utah

Aug 2023 – Present

Salt Lake City, UT

- Served as **Lead Teaching Assistant** for Software Practice I and TAed for **Data Structures and Algorithms**, supporting **300+ students per semester**.
- Built and maintained **automated grading pipelines**, cutting manual grading effort by **50%+** and enabling faster, more consistent feedback.
- Led regular **help hours** and partnered with course staff to refine **grading rubrics and tooling**, improving student performance, code quality, and overall assignment reliability.

Data Science Research Assistant

School of Dentistry, University of Utah

May 2024 – Aug 2024

Salt Lake City, UT

- Built **end-to-end data preprocessing and visualization pipelines** to enable scalable analysis of large epidemiological datasets.
- Implemented **statistical and computational models** in Python (**NumPy, pandas, SciPy**) to analyze pathogen spread, outbreak behavior, and simulation results.
- Leveraged **high-performance computing resources** to run large-scale simulations and produce validated figures and quantitative results for **peer-reviewed manuscripts**.

PROJECTS

Groovary | Python, FastAPI, React, PostgreSQL, Docker, GitLab CI/CD, OAuth

Aug 2025 – Present

- Collaborated in a **team of four** to design and build a cross-platform music analytics application that aggregates listening data to deliver unified insights and personalized dashboards.
- Built backend infrastructure for a music analytics platform integrating Apple Music, Spotify, and YouTube Music using **FastAPI** and **PostgreSQL**.
- Implemented OAuth, database design, and automated ETL pipelines for data ingestion.
- Set up **GitLab CI/CD** pipelines with **Docker** to automate testing, builds, and deployment.

TECHNICAL SKILLS

Backend: Express.js (Node.js/TypeScript), FastAPI (Python), Django (Python), ASP.NET (C#)

Databases: PostgreSQL, MySQL, MongoDB, Firebase, Amazon S3, SQL Server

Frontend: React, React Native (TypeScript), Tailwind CSS

Cloud & DevOps: AWS (API Gateway, Lambda, EC2, RDS, S3, CloudFront), GCP, Docker, CI/CD

AI/LLM & Developer Tools: Prompt engineering, fine-tuning, OpenAI API, scikit-learn, TensorFlow, PyTorch, Git, Cursor, Claude Code, VS Code, Figma