

# HUNG PHAN

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## EDUCATION

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### 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

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### 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

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### 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

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**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