

Danh Pham

669-293-4357 | danhpham1104@gmail.com | [linkedin.com/in/dcpham](https://www.linkedin.com/in/dcpham) | github.com/danhpham2000

EDUCATION

San Francisco State University

San Francisco, CA

Bachelor of Science in Computer Science

Dec 2024

- **Coursework:** Data Structures and Algorithms, Linear Algebra, Web Development, Computer Architecture, Operating System, Probability and Statistics, Machine Learning, Deep Learning, Data Science of Personalized Medicine, Software Development and Engineering, Database System

EXPERIENCE

Life Stages

Sacramento, CA

Software Engineering Intern

Sep 2023 - Present

- **Technologies:** React Native, Node.js, Express.js, Google Firebase
- Implemented backend infrastructure with user registration functionality and validation mechanism using Firebase Authentication, ensuring data integrity and confidentiality through secure protocols
- Engineered a user preference selection feature and interact with REST API endpoints, ensuring data storage and retrieval within Firestore database
- Identified and resolved critical bugs using systematic testing, resulting in 30% decrease in post-launch error reports and enhancing user satisfactions

PROJECTS

Mind Learning (HackTX 2024) | React, NestJS, Python, FastAPI, PostgreSQL

Nov 2024 – Present

- Developed an AI-powered e-learning platform that personalizes educational pathways, leveraging real-time assessments to deliver tailored learning experiences
- Engineered and optimized Gemini API integration, initially reducing response time from 7 seconds to 2 seconds through schema definition, enhancing user interaction speed and platform efficiency
- Integrated secure, scalable authentication flows using JWT and OAuth2 protocols within React and NestJS, supporting seamless user registration, login, and personalized session management
- Configured PostgreSQL for efficient data handling and indexing, facilitating rapid storage and retrieval of user profiles, assessment data, and adaptive learning paths, enabling the AI backend to dynamically adjust to user progress
- **Link:** <https://devpost.com/software/mind-learning>

Music Buddy (HackUTA 6) | Angular, Bun, Hono, Python, PostgreSQL, AWS

Oct 2024 – Present

- Architected and developed music platform using Angular for frontend, Hono microservices for backend with Bun runtime, and AWS (Amplify, S3, EC2) for cloud infrastructure, focusing on scalability and high performance
- Implemented secure user authentication through AWS Cognito and custom authentication microservice, while utilizing PostgreSQL with TypeORM for efficient data management
- Engineering Python-based machine learning service with AudioFlux for music analysis and mood detection, enabling personalized recommendations through user behavior pattern recognition
- **Link:** <https://devpost.com/software/musical-analysis-generative-ai-playlists>

Credit Score Classification | Python, TensorFlow, Keras, Google Colabs

Dec 2023

- Built machine learning model with neural networks to classify credit score, achieving 79% accuracy on a dataset of 100,000 records
- Collaborated with 2 team members to clean and standardize a dataset, enabling scalability across 27 features
- Documented model configurations and performance for transferring knowledge across 30 people in 1 week

TECHNICAL SKILLS

Languages: Python, HTML/CSS, JavaScript, SQL, Java, C#, C/C++, PHP, TypeScript

Frameworks and Libraries: React, React Native, Next.js, Angular, Bootstrap, Sass, Tailwind CSS, Streamlit, FastAPI, Node.js, Express.js, Bun, Hono, NestJS, ASP.NET, Spring Boot, Hibernate, Sequelize, Mongoose, Prisma, TensorFlow, Keras, PyTorch, Pandas, NumPy, Matplotlib, Seaborn

Database: MySQL, PostgreSQL, SQLite, Microsoft SQL Server, MongoDB, Firebase, Redis

Tools: AWS, Google Cloud Platform, Git, GitHub, Docker, JUnit, GraphQL, Tableau, Postman, Visual Studio Code, Jupyter Notebook, Google Colabs, IntelliJ