Kevin Dinh

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EDUCATION

Drexel University Philadelphia, PA
Bachelor of Science in Computer Science, Minor in Finance *Expected Graduation: 2028*
Concentrations: Artificial Intelligence, Software Engineering *GPA: 3.7*
Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Software Design & Development with Agile, Linear Algebra, Discrete Mathematics

TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript, TypeScript, HTML/CSS, Dart, SQL, C
Frameworks/Libraries: React, Firebase, Flask, pandas, NumPy, Scikit-learn, PyTorch
Developer Tools: Git, Linux/Unix, VS Code, Jupyter Notebooks, Docker, Kubernetes, AWS, REST API Development, CI/CD Pipelines, SDLC, Test-Driven Development

EXPERIENCE

Undergraduate Researcher - Co-Design of Spiking BERT September 2025 - Present
Drexel University - Department of Electrical & Computer Engineering *Philadelphia, PA*
- Fine-tuned BERT on 9 GLUE benchmark datasets, achieving accuracy of 86% and F1-score of 84%, using PyTorch and Hugging Face Transformers
- Developed a spiking BERT model in PyTorch and SpikingJelly that achieved 88% accuracy on GLUE benchmarks, while reducing simulated energy consumption by 70%
- Optimized training workflow with GPU acceleration, completing 50+ fine-tuning experiments on GLUE tasks and reducing training time by 35% with mixed precision and batch size tuning

Tech Instructor Jun 2025 - Aug 2025
Lavner Education *Los Angeles, CA*
- Taught Python, Java, Robotics, and Game Development to 20+ students per session, reinforcing core programming concepts, algorithms, and debugging practices
- Designed and guided projects in object-oriented programming and game mechanics, boosting student project completion and engagement by 30%
- Provided one-on-one tutoring sessions to assist students in troubleshooting code and implementing solutions across multiple languages and platforms

PROJECTS

ASLearn Hackathon Project | *OpenCV, YOLOvX, Python, Jupyter* September 2024 – Present
- Led a 4 member team to build an AI-powered web platform that teaches American Sign Language (ASL) through real-time gesture recognition
- Developed and trained an AI model using OpenCV and YOLOvX to detect and classify ASL signs via webcam
- Automated the dataset collection process using a Jupyter Notebook script that leveraged Python's os module to capture labeled training images every 5 seconds

Moodify | *Spotify API, Python, Flask, HTML, CSS, OAuth 2.0* September 2024 – Present
- Built a Flask-based web app integrating Spotify API to generate playlists based on user mood inputs
- Implemented secure OAuth 2.0 authentication to access user playlists and preferences
- Leveraged Spotify's Recommendations API to generate playlists tailored to 5 mood states, improving personalization
- Enhanced front-end responsiveness, achieving a 20% reduction in page load time across mobile and desktop browsers

WellMate | *Flutter, Dart, Firebase Authentication* January 2025 – Present
- Developed a goal-tracking app using Flutter and Firebase to monitor wellness habits and progress
- Implemented secure user authentication and personalized data sync using Firebase, reducing login and data load time to 2 seconds
- Led 3 sprints in an Agile development cycle, contributing 10+ code commits per week
- Tracked 100+ goal completions and weight entries using structured habit and progress models stored in Realtime Database