

ANGELINA LEE

alee57bc@gmail.com | linkedin.com/in/alee57bc | github.com/alee57bc

EDUCATION

The Pennsylvania State University

Bachelor of Science in Computer Science, Minor in Computer Engineering, Cybersecurity, Mathematics

University Park, PA

Aug. 2023 – May 2027

- **Relevant Coursework:** Object-Oriented Programming, Data Structures & Algorithms, Operating Systems, Computer Architecture, Linear Algebra, Systems Programming, Programming Language Concepts, Statistics and Probability, Computer Vision, Wireless Systems and Security

TECHNICAL SKILLS

Languages: Python, Java, C, C++, HTML, CSS, JavaScript, Pandas, Assembly, PyTorch, Racket, SQL, LangChain, Swift

Technologies: React, React Native, Expo, Linux, Git, AWS, Unix Shell Scripting, Azure, PyTorch, OpenAI, Hugging Face, Verilog

Interests: Artificial Intelligence, RAG, Machine Learning, Quantum, Deep Learning, Embedded Systems, Cloud, Cybersecurity

EXPERIENCE

AI Engineer

May 2025 – Present

IBM

Philadelphia, PA

- Engineered a scalable generative AI system in WatsonX that automated complex legacy code transformation into modern coding languages with 80% accuracy, accelerating modernization and large-scale adoption of cloud-ready solutions
- Partnered with 10 engineers to construct an advanced intelligent virtual support agent with conversational, diagnostic, and contextual modules, reducing troubleshooting time by 35% and improving customer satisfaction for millions
- Curated a dataset from 1,000+ cloud sources, to improve the visibility of data and reduce searching time by 20%
- Led a 12+ participant AI workshop, leading to enhanced interest and a second workshop to further discuss opportunities
- Developed and deployed a fully functional AI agent with WatsonX Orchestrate ADK, streamlining workflow automation and demonstrating end-to-end agent design capabilities

Programming and Computation II Course Grader

January 2025 – Present

The Pennsylvania State University

University Park, PA

- Evaluated 2,000+ coding assignments and exams for 400+ students, ensuring accurate grading and enhancing code quality
- Delivered detailed, personalized feedback to strengthen students' ability to write robust, efficient, and reusable code, fostering improved programming practices

Calculus with Analytic Geometry Learning Assistant

January 2024 – Present

The Pennsylvania State University

University Park, PA

- Partnered with faculty to refine curriculum, making advanced coursework more accessible and engaging for diverse
- Mentored 30+ students in lectures and hosted office hours for 1,000+ students, boosting comprehension of complex materials

Full-Stack Developer

February 2025 – May 2025

Flourish

Remote

- Built React Native/Expo mobile apps, reducing latency by 10% and enhancing scalability across iOS and Android
- Collaborated with a 12-member cross-functional team to design APIs, databases, and backend systems, enabling real-time wellness tracking and visualization

PROJECTS

BiteTrail | React, HTML, CSS, JavaScript

Oct 2025 – Present

- Developed a full-stack web application using React and Google Maps API that enables users to log visited restaurants, record reviews, and rate food, improving social food discovery and personalized dining recommendations

SoundScout | Spotify API, OpenAI, HTML, CSS, JavaScript

September 2025

- Designed and developed a full-stack, AI-powered music recommendation platform integrating the Spotify Web API with an intelligent agent to analyze user listening behavior and deliver personalized song or playlist suggestions
- Implemented advanced recommendation features allowing users to discover tracks by mood, genre, BPM, or similarity to a given artist/song, enhancing music discovery and user engagement

OTHER

The Daily Collegian

September 2025 – Present

- Maintain and enhance a full-stack analytics dashboard to track and visualize multi-platform social media performance
- Develop and deploy machine learning models (NER, clustering, contextual analysis) to extract insights from decades of Collegian content, to enable trend discovery and audience engagement analysis