

Andrew Lin

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EDUCATION

Texas A&M University

BS in Computer Science & Minor in Cybersecurity

EXPERIENCE

Hewlett Packard Enterprise (HPE) | Software Engineer

June 2025 - Present

- Modernized testing for a legacy C codebase supporting multiple teams on the Alletra MP block storage product
- Implemented a unit testing framework from ground up using Criterion and Mimick for Remote Copy (data replication)
- Integrated framework into Jenkins CI/CD pipeline, automating builds and regression testing across storage arrays

Hewlett Packard Enterprise (HPE) | Software Engineering Intern

June 2024 - August 2024

- Developed a full stack bug management dashboard to streamline the bug triage process for the Alletra MP by allowing for a more intuitive and organized view of Bugzilla data
- Implemented bug prioritization, color coding, and weekly sorting to enhance visibility and management of bugs with jQuery
- Utilized a tech stack with Docker containers: Nginx, MariaDB, Flask backend with SQLAlchemy, alongside a frontend built with Vanilla Javascript, HTML/CSS, Jinja, and Bootstrap

USAA | Software Engineering Intern

May 2023 - August 2023

- Stabilized a client-facing application called One Stop Shop (OSS), providing over 100,000 daily users' most updated claim status
- Maintained application's UI and API leveraging Spring Boot to ensure seamless functionality
- Integrated full stack test cases with JUnit, Cypress, Postman, and Gradle to validate functionality after code refactoring

PROJECTS

Neurological Imaging Classification & Evaluation | github.com/andrewlin27/NICE

- Served as project manager and lead full stack developer on an ML-based diagnostic system for detecting strokes and tumors
- Built the frontend, backend REST APIs, and database using Next.js and Supabase to integrate with the TensorFlow ML model
- Awarded 2nd place among hundreds of teams at the TAMU Computer Science & Engineering Capstone Project Expo

TAMU Sports Pass Resell | github.com/andrewlin27/Sports-Pass | aggiepasses.com

- Developed a full-stack React web application with 2.6k users, producing a scalable platform to connect students at Texas A&M for peer-to-peer sports pass exchanges
- Implemented a serverless backed with AWS Lambda, API Gateway, and DynamoDB to efficiently manage and process user data while using CloudWatch for real-time monitoring and debugging
- Deployed application with Vercel, ensuring fast and reliable access with custom domain configurations

Chilifest Music Festival Vendors | github.com/andrewlin27/chilifest-builds | chilifestbuilds.com

- Created a website with over 7k users, utilizing a React frontend and Node/Express.js backend, streamlining the ticket-buying process and centralizing prices for the Chilifest music festival from 16 different vendors
- Designed RESTful APIs with Express and Node.js to handle HTTP requests, enabling seamless interactions with an AWS RDS PostgreSQL database
- Deployed backend server on AWS EC2 to ensure constant availability, using PM2 to manage server process
- Secured API endpoints with ZeroSSL to generate SSL certificates, ensuring HTTPS communication

LEADERSHIP AND ACTIVITIES

Aggie Club of Engineers | Recruitment Chair

- Led a team of 40 members to select a new member class of 40 students from a pool of around 280 applicants
- Collaborated with executive board to devise 4 weeks of recruitment events with a budget of \$840

Fish Camp | Counselor

- Worked with director staff, co-chairs, and fellow counselors to run a two-night orientation camp for 100+ freshmen
- Maintained communication with cohort of 12 freshmen, extending a welcome into the Aggie Family

Phi Eta Sigma Honor Society | Treasurer

- Oversaw all financial planning and transactions of over \$40,000 in cash flow
- Organized several fundraising initiatives in collaboration with local restaurants, raising over \$500 in funding

SKILLS

- **Programming:** C/C++, JavaScript, Next.js, React, Node.js, Python, Flask, SQLAlchemy, Jinja, HTML/CSS, Tailwind
- **Tools:** AWS Lambda, API Gateway, EC2, CloudWatch, DynamoDB, Cloud Firestore, PostgreSQL, Supabase, Docker, Vercel, Git, Linux, Postman, Jenkins, Jira
- **Related Coursework:** Data Structures & Algorithms, Software Engineering, Artificial Intelligence, Machine Learning, Parallel Computing, Network Security, Computer Architecture, Operating Systems, Object-Oriented Programming