Andrew Lin

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EDUCATION

Texas A&M University	**Expected Graduation:** May 2025
BS in Computer Science & Minor in Cybersecurity	**GPA**: 3.87

EXPERIENCE

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 a major data storage product 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 through Agile methodology
- Maintained application's UI and API leveraging Spring Boot and Java to ensure seamless functionality
- Integrated comprehensive full stack test cases with JUnit, Cypress, Postman, and the Gradle build tool to validate functionality after code refactoring
- Elected as Team Air Force leader of Interns, coordinating participation of 29 interns in various activities and competitions to raise funds for a military donation

PROJECTS

Aggie Sports Pass Resell | https://aggiepasses.com/
- Developed a full-stack web application with a React.js front end, 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 | https://chilifestbuilds.com/
- Created a website with over 6.4k users, utilizing a React.js 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

Codehoot (Hackathon) | https://andrewlin27.github.io/Codehoot
- Delivered a web-based educational platform combining coding challenges and gamified learning experiences to engage children under 12 in STEM subjects
- Designed an intuitive React.js interface, fostering an interactive and visually appealing experience for young learners
- Leveraged Firebase Firestore via Google Cloud for real-time data synchronization, ensuring personalized user interactions

LEADERSHIP AND ACTIVITIES

Aggie Club of Engineers | Recruitment Chair — September 2021 - Present
- Led a team of 40 members to select a new member class of 41 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 — April 2022 - October 2023
- Interacted 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 — April 2022 - August 2023
- 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:** Python, Flask, SQLAlchemy, Jinja, JavaScript, React.js, Node.js, HTML/CSS, Bootstrap, C/C++, Java
- **Tools:** AWS Lambda, API Gateway, EC2, CloudWatch, DynamoDB, Cloud Firestore, PostgreSQL, Vercel, Git, Jira, Postman
- **Related Coursework:** Data Structures & Algorithms, Software Engineering, Artificial Intelligence, Machine Learning, Parallel Computing, Network Security, Computer Architecture, Operating Systems, Object-Oriented Programming