Hailin Zeng

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Education

Bachelor of Science in Computer Science 12/2024
University of Florida, Gainesville, FL GPA: 3.66 / 4.00

Master of Science in Computer Science 05/2026
University of Florida, Gainesville, FL GPA: 3.50 / 4.00

Skills

- Programming Languages: C++, Java, Python, JavaScript, TypeScript, SQL, R, MATLAB
- Frontend & Backend: HTML/CSS, React Native, React.js, Vue.js, Bootstrap, Node.js, Flask, Django, Erlang/OTP
- DevOps & Cloud & Databases: Docker, AWS, Linux/Unix, PostgreSQL, MangoDB
- Development Tools & Platforms: Git/GitHub, Jupyter Notebook, Android Studio, Expo, Figma

Experience

Outlier AI *(remote)* 08/2025 - now

AI Data Specialist (RLHF & Prompt Engineering)

- Applied Reinforcement Learning from Human Feedback (RLHF) by creating organized prompt experiments and providing evaluation reports that guided model optimization.
- Designed and executed structured tests targeting different prompt styles and parameters, thereby enhancing model performance.
- Carefully curated and ranked model response pairs for RLHF, boosting internal usefulness evaluation by 10%.

2021 Intercollegiate Programming Competition *(python)* 04/2021

Contestant

- Took part in a programming competition that included coding challenges and algorithmic problem-solving. Python was used to implement algorithms, optimize code for time and space complexity, and conduct rapid prototyping.
- Developed effective solutions for a range of challenging issues, such as combinatorial algorithms, data structures, and dynamic programming. Improved logical and analytical abilities translated a large number of real-world issues into programming issues.

Projects

Android Travel Planning App --- TripTrails *(Mobile Dev)* 08/2024 – 12/2024

Front-End Developer

- Collaborated with team members to transform UI/UX wireframes and prototypes into fully functional cross-platform mobile applications using Figma. Developed front-end user interfaces with React Native, ensuring design fidelity and premium user experiences.
- Integrated Google Maps API to deliver interactive map views, location recommendations, and route planning capabilities. Implemented a calendar dashboard UI enabling users to effortlessly view, add, delete, edit, and enabled iCal format support for calendar sharing. Significantly enhanced the convenience and practicality of travel planning while optimizing the user experience for schedule management.
- Architected and developed a full-stack mobile solution using Expo to manage the project configuration and simplify the build process. Utilized Android Studio as the primary IDE for advanced debugging, performance profiling, and emulator management, significantly improving development efficiency and ensuring optimal resource utilization.
- Applied ESLint and Prettier for maintaining high code quality and consistent formatting standards. Utilized Jest for unit testing, reducing communication overhead in team collaboration, and ensuring the app's functionality, robustness, and reliability across different user workflows.

Operating System in Reptilian *(C++)* 01/2024 – 05/2024

DevOps Engineer

- Implemented custom system calls in Reptilian. Designed and implemented an API for interacting with kernel log levels and managing diagnostic data, which provides foundational insights for system monitoring.
- Built a custom memory manager implementing algorithms for efficient tracking, allocation, and deallocation, with correctness validated through extensive memory leak and error testing. Optimized memory fragmentation handling by implementing block merging and efficient utilization, significantly boosting system performance.
- Developed a FUSE-based user-space filesystem daemon, enabling read/write operations on WAD archives. Demonstrated proof-of-concept functionality for file system operation and cloud storage service implementations.

Integrated Grading System *(Full stack)* 01/2024 – 05/2024

Full Stack Developer

- Engineered a responsive and user-friendly frontend interface using React.js, which enabled students and instructors to seamlessly view, submit, and manage grades, and integrated automated grading scripts for coding assignments. Improved operational efficiency by reducing manual grading time by 50%.
- Designed and secured the backend API using Node.js and Express. Used MongoDB to efficiently store and manage diverse data types like user profiles, assignments, and grading rubrics. Implemented role-based access control strict authorization between user types (Admin, Instructor, Student), enhancing application security and data integrity.
- Architected, containerized, and deployed the full-stack application on AWS. Used Docker to package the Node.js backend and React.js frontend into portable containers, simplifying dependencies and guaranteeing environment consistency.

Certifications & Licenses

AWS Certified Cloud Practitioner – Basic (pending)