

# JERRY HE

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## EDUCATION

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### The University of Texas at Austin (Austin, TX)

Aug 2022 - May 2026

*Bachelor of Science in Computer Science, Minor in Robotics*

- **GPA:** 4.0, Distinguished College Scholar
- **Relevant Coursework:** Data Structures, Algorithms, Software Engineering, Mobile Development, Operating Systems, Architecture, Discrete Math, Machine Learning, Linear Algebra, Statistics, Human Comp. Interaction

## SKILLS

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Collaborative and dedicated third-year undergraduate with 6+ years of web, mobile, and systems development experience.

- **Languages:** Java, Python, C, Javascript, HTML, CSS, Kotlin, Dart, LaTeX
- **Frameworks/Technologies:** ReactJS, Bootstrap, Flutter, Firebase (NoSQL), SQL, Flask, Linux/Unix
- **Tools:** Git, GitHub, Visual Studio Code, Android Studio, Pandas, Numpy, Scikit learn, PyUnit, Gradle, Figma

## EXPERIENCE

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### C S 313E Elements Of Software Design (Austin, TX)

Aug 2024 - Present

*Undergraduate Course Assistant*

- Guided 300+ students in understanding data structures through the establishment of rubrics and timely feedback
- Improved student comprehension by leading 30+ sessions to address misunderstandings and coding issues
- Helped students progress their programming skills with the construction of coding tutorials and PyUnit tests

### ECLAIR Robotics (Austin, TX)

Jan 2024 - Present

*Autonomous Vehicle Engineer (Ongoing Project)*

- Developing a small-scale autonomous vehicle capable of navigating a track and adapting to human instructions
- Implementing autonomous navigation through bifocal computer vision and integrating NLP instruction processing
- Enabled remote operation and live video streaming using a Raspberry Pi control system programmed in Python

## PROJECTS

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### PaperTrail: Subscription Website (<https://jerryhehq.com/#projects>)

Aug 2024 - Dec 2024

- Collaborated with a team of six to develop a fluid React-based newspaper and magazine subscription website
- Gained experience in both plan-based (SRS, SDD, & STP) and Agile Scrum development to implement user signup, login, search, filter, cart, checkout, reviews, admin review approval, and a points-based reward system
- Designed frontend in Figma; developed in React with bootstrap, routes, and URL state management; built backend with Flask, Python, and SQL database; integrated authentication tokens and Axios API calls

### DotFlare: Feedback Web App (<https://github.com/jerryhehq/dotflare-v2>)

Jan 2024 - May 2024

- Developed a React web app to help users provide rapid and targeted feedback with token-based sessions
- Implemented features for users to upload images and annotate them with feedback dots in the formal analysis format, select feedback subject areas, and categorize the feedback as positive or negative for quick critiques
- Designed an intuitive interface using Bootstrap for senders to visualize feedback concentration and details, enhancing design iteration based on user insights and allowing for rapid prototyping

### PintOS: OS Implementation

Aug 2023 - Dec 2023

- Collaborated with a team of four to implement the functionalities of PintOS as part of an operating systems course
- Programmed critical system features, including system calls, process scheduling algorithms, thread synchronization mechanisms, deadlock avoidance, virtual memory management, and file system operations
- Ensured optimal and seamless integration of system components in C through extensive planning and discussion

### Sertinary: Lifestyle Mobile App (<https://github.com/jerryhehq/Sertinary>)

Jan 2022 - Jun 2022

- Developed a cross-platform mobile app using Flutter and Firebase to help users achieve their health goals
- Deployed features such as a food intake tracker, nutritional information display, real-time custom recipe sharing, and persistent alarms each with an intuitive and user-friendly interface
- Achieved a streamlined integration of Firebase Firestore backend services with fast and reliable data updates