

MAX HARTFIELD

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EDUCATION

The University of Texas at Austin

Bachelor of Science, Computer Science
Minor: Statistics and Data Science

Dec 2025

Overall GPA: 3.93/4.00

Related Coursework: Data Structures and Algorithms, Operating Systems, Software Engineering, Object-Oriented Programming, Artificial Intelligence, Machine Learning, IOS Mobile Computing

EXPERIENCE

Amazon - Software Development Intern; Dallas

May 2025 - August 2025

- Developed a full-stack log analysis web application to pinpoint performance bottlenecks and accelerate root cause analysis
- Enhanced a Java instrumentation agent to inject bytecode-level logging for tracking method and database operation timings
- Built a performance analysis dashboard to visualize method call hierarchies, execution times, and database operation metrics
- Implemented a pattern library system enabling targeted log extraction and anonymization using reusable regex patterns
- Deployed on AWS using EC2, S3, and CloudFront, integrating Amazon's internal authentication for secure access

Cox Automotive - Software Engineering Intern; Austin

May 2024 - August 2024

- Collaborated with a team of developers and utilized agile software development to deliver meaningful changes to production
- Developed and thoroughly tested with Stencil.js and .NET to create new endpoints and render a web components through CDN
- Created GitHub Actions workflows to automate setup of staging environments for frontend and backend applications
- Utilized Terraform to generate the AWS resources necessary to create a dedicated CloudFront CDN for the frontend
- Integrated an enterprise wide design system based on Tailwind to restyle web components and make future development easier
- Implemented a chrome extension that programmatically scrapes a user's page and uses AI to evaluate a feature and its user stories

ACADEMIC PROJECTS

Gatherly

Spring 2025

- Developed a mobile app in Swift using Xcode and Storyboard to streamline party planning and event coordination
- Integrated Firebase Authentication and Firestore to handle login, RSVP updates, and real-time party data storage
- Built core functionality for users to create parties, join events, change RSVPs, and view all upcoming invitations
- Implemented calendar syncing to let users seamlessly add events to their Apple Calendar from within the app

Texas Trauma Support Website

Spring 2024

- Collaborated with 4 colleagues to build a dynamic React.js website hosted on AWS Amplify to aid trauma survivors
- Programmatically scraped data from 3 data sources using Puppeteer and populated the data into a SQL database
- Implemented an API for the frontend to seamlessly retrieve the data for over 3550 instances of support resources from the backend
- Utilized RESTful APIs like Google Maps and Yelp to display locations and reviews for trauma facilities
- Created unit tests in both the frontend and backend and incorporated Continuous Integration with GitLab Pipelines
- Wrote a technical report on the technologies used and how to build and deploy the website to facilitate future development

Easy Cook

Spring 2024

- Created a mobile app to help users track calories and generate recipes given ingredients or a specified meal/cuisine
- Programmed in Dart and utilized Flutter and OpenAI API to make a unique and flexible experience for both IOS and Android users

Chess Website

Summer 2023

- Built a static website where two people can play chess on the same device using HTML, JavaScript, and CSS
- Implemented the complex game mechanics in chess like piece movement, castling, stalemate, promotion, etc.
- Created a user friendly design by outlining possible moves, highlighting last move, and coloring the king red when in check
- Integrated an undo feature and a custom board editor, allowing users to play from any desired position or configuration.

SKILLS

- **Computer Programming:** Python, Java, C, C++, C#, JavaScript, TypeScript, HTML, CSS, SQL, Terraform, YAML, Assembly, React.js, Stencil.js, .NET, Flask, Dart, Flutter, Swift
- **Tools:** AWS, Docker, Postman, Swagger, Git, Github Actions, GitLab Pipelines, CI/CD, Visual Studio Code, Bootstrap, Tailwind, Puppeteer, MSTest, Jest, Selenium, Scrum Agile Development, Jupyter Notebook, Matplotlib, Pandas, Sklearn