

Ryan Harwood

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EDUCATION

University of Texas at Austin

Austin, TX

Bachelor of Science in Computer Science: GPA - 3.85/4.0

Aug 2021 - Dec 2025

- Relevant Coursework: Software Engineering, Multi-core Architecture, Parallel Programming, Networks

University of Edinburgh

Edinburgh, Scotland

Spring Semester Exchange

Jan 2024 - May 2024

National University of Singapore

Singapore, Singapore

Fall Semester Exchange

Aug 2024 - Dec 2024

EXPERIENCE

Software Development Intern

May 2023 - Aug 2023

Paycom

Dallas, TX

- Designed and built a full-stack internal web tool to streamline workflow documentation.
- Utilized C# and ASP.NET to create a robust and efficient backend, implementing RESTful APIs to handle data retrieval and manipulation.
- Integrated user authentication and authorization functionalities using industry best practices, enhancing the security and privacy of sensitive internal data within the tool.
- Conducted peer reviews and unit testing; completed full-feature MVP ahead of schedule.

Medical Device Laboratory

Feb 2022 - May 2022

University of Texas

Austin, TX

- Worked under graduate student Iman Salafian on multiple aspects of the CETCS catheter project.

PROJECTS

AI Job Matching Platform | *Python, Vertex AI, BigQuery, Cloud Run, React*

Mar 2025 - Present

- Live project available at cheapdomian.shop
- Built an end-to-end system that scrapes over 100,000 job posts per day, stores them in BigQuery, and ranks openings against user inputs with Vertex AI text-embedding and ANN vector search.
- Containerized microservices with Docker and deployed to Cloud Run; reduced infrastructure cost by 40% using autoscaling.
- Exposed a Flask REST API consumed by a Vite/React and Tailwind front-end; added CI/CD on GitHub Actions.
- Implemented granular IAM and secret-manager policies.

Codeathon Winner – Project Selection Platform | *React, Typescript*

July 2023

- Led frontend development of a platform that matches interns to projects based on skills and interests.
- Presented live demo to judges; won 1st place out of 16 teams based on usability and completeness.
- Delivered responsive UI in React and TypeScript and integrated API endpoints under 24-hour deadline.

Dathack 2022 | *Python, Pandas, Plotly, Matplotlib*

April 2022

- Utilized pre-trained machine learning models to analyze data, reaching a conclusive assessment regarding Upworthy's adherence to its commitment of discontinuing predatory business practices.
- Acquired foundational knowledge of Python data science libraries, including Pandas, Plotly, and Matplotlib.
- Delivered our findings to a panel of judges and fellow competitors specializing in natural language processing, data visualization, and statistics.

TECHNICAL SKILLS

Languages: Java, Python, C, C#, SQL

Cloud/DevOps: Google Cloud Platform (BigQuery, Cloud Run, Vertex AI, IAM), Docker, GitHub Actions, Git

Frameworks: React, Vite, Flask, ASP.NET