

Devan Kavalchek

Portfolio: <https://kavalchek.dev>

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Education

Rochester Institute of Technology | Rochester, NY August 2020 - May 2025
Bachelor of Science in Software Engineering

- Cumulative GPA: 3.56
- Dean's List Spring 2021 to Present
- Member of Society of Software Engineers

Work Experience

AMD | Boxborough, MA May 2024 - August 2024
Software Engineer Co-op
Python, Docker, JavaScript

- Built a custom AI chatbot that assists silicon engineers in debugging failed emulation jobs.
- Utilized LlamaIndex and GPT-4 to build a ReAct agent, allowing the chatbot to make decisions and dynamically fetch data to answer questions.
- Deployed Elasticsearch, Kibana, Langfuse, and Grafana infrastructure to track historical data such as token usage, prompts, and responses.
- Utilized DeepEval to create a custom runtime metrics tracker and unit test suite for LLMs, allowing us to analyze the agent's performance, usage, and accuracy over time.
- Established self-hosted Github actions runner to improve code review workflow.

Software Engineer Co-op August 2023 - December 2023
Python, HTML, CSS, JavaScript, SQL

- Enhanced flask web server to display new metrics and improve user workflows.
- Created a program to periodically log metrics that were used to optimize emulator scheduling and usage.
- Refactored web server code to be more extensible and utilize best practices.
- Created a maintenance web app that allows the infrastructure team to easily turn emulator resources on or off.

Phoenicia Labs | Cleveland, OH June 2023 - August 2023
Mobile & Full Stack Engineer Co-op
Flutter (Dart), ReactJS (TypeScript, HTML, SCSS), AWS (TypeScript, NoSQL)

- Utilized Flutter to build a client banking mobile application from the ground up.
- Helped quickly build a MVP payroll system that raised \$1.1 million from investors.
- Worked around constantly shifting requirements and deadlines on a small, fast-paced team.
- Improved team workflow by implementing agile software development processes to improve cycle time and visibility.
- Met in person with clients and potential customers to demo features and receive user feedback.

Programming Languages

Python
TypeScript
JavaScript
Java
SQL
Dart
HTML
CSS/SCSS

Frameworks

ReactJS
Flutter
AWS
Firebase
Flask

Tools

Git
Command line
Docker
Storybook
Figma
Vim

Awards

BrickHack7:
Best Usage of
Google Cloud
ClayHack
2020: Best
Project Design
Meet & Hack
2022: 2nd
Place
Community
Hack

Wayfair | Boston, MA

July 2022 - December 2022

Full Stack Engineer Co-op

ReactJS (TypeScript, HTML, SCSS), Java, SQL

- Utilized ReactJS, TypeScript and Redux to fix, maintain and update internal marketing tools that are used to design and deliver billions of emails and push notifications every day.
- Improved code health by eliminating hundreds of code smells in the codebase.
- Took ownership of the objective to migrate SQL tables and API endpoints from outdated PHP Monolith to Java Spring Boot.
- Resolved the highest number of story points in a single month on the frontend notifications team for the year.
- Frequently gave demos of upcoming features to stakeholders to receive feedback.