

Fred Amartey

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EDUCATION

Bachelor of Science in Software Engineering

Minor in Web and Mobile Computing • Rochester Institute of Technology • Rochester, NY • (Expected 2021)

COURSEWORK

Software Design Principles and Patterns

Software Engineering • Software Architecture, Version Control (Git), Leadership, Teamwork

Led a team of 4 through System Design and Architecture to implementation of a Wellness Manager application in Java.

Data Structures and Algorithms

Computer Science • Problem Solving

Sorting and Searching Algorithms, Recursion, Linked Lists, Stacks, Queues, Trees, Heaps, Hash Tables, Graphs.

EXPERIENCE

Software Test Engineer Co-op

Amplify

Jan 2020 - July 2020, Brooklyn, NY

- Improved application performance speed by 30% by reducing unnecessary redundancies through refactoring and leveraging microservices.
 - Enabled continuous deployment and delivery by designing, creating and developing automated frameworks, processes and test cases based on functional and end-user requirements.
 - Built and managed testing environments and assisted in debugging application issues.
 - Wrote automation tests, integration tests, unit tests and merged them into the Continuous Integration tool.
 - Participated in daily standup, code reviews and requirements meetings to discuss the scope of projects.
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PROJECTS

A11YRecruiter - <https://a11yrecruiter.com>

Career services website for college students with disabilities built with Node.js (Hackathon submission at BrickHackV).

- Consumed and filtered the Handshake API to populate the job board with specific jobs.
- Implemented RESTful Routing with express.js to render dynamic pages and passport.js for secure user authentication.
- Significantly improved workflow by setting up CI/CD pipeline reducing deployment time from 1 hour to 4 minutes.
- Containerized the application to allow for portability across development server and production server using Docker.

Engineering Students Association Mobile Application

Student organization and management application built with React-Native.

- Developed and consumed REST API's to parse data between clients and servers using node.js and python.
- Designed UI components and developed them into React components promoting a more modular codebase.
- Converted mockups and wireframes into picture-perfect views and screens with a fluid user-experience.
- Led a team of 4 engineers through code reviews and sprint plannings.

Vueture - <https://fredamartey.com/projects/vueture/pwa>

Real-time chat application built with Vue.js and Vuex (Progressive Web Application).

AIFred - <https://fredamartey.com/projects/aifred>

Pseudo-AI application built with Vanilla JavaScript (ES6).

- Utilized the Web Speech API to listen for and parse speech.
 - Applied Speech Recognition and Speech Synthesis to respond accordingly after listening to user speech.
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SKILLS

JavaScript, Java, Python, Node.js, React.js, Vue.js, Express.js, Handlebars, ES6, jQuery, HTML/CSS, MongoDB, Firebase, MySQL, Git, AWS (EC2), Docker, Linux, Continuous Integration and Deployment (CI/CD), TravisCI