

Rosemary Charnley

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As I seek new opportunities, I am excited to collaborate with visionary teams that share my dedication to building a future where technology seamlessly enhances our lives.

EXPERIENCE

Freelance Software Engineer | Full Stack and Mobile Software Engineer | May 2023 – Present

- Full Stack and Mobile software engineer (Android and iOS) for early-stage start-up Making Co.
- Key features I am developing include a physical goods marketplace with Shopify integration, category filtering and a sales metric dashboard; using mostly react and react native with some Python on the server-side code, MySQL, and AWS.
- Work directly with the CEO and Lead Engineer on product development, road mapping and implementation.

InMotion Software | Full Stack Software Engineer | October 2022 – May 2023

- Full stack software engineer consultant for an industry-leading multinational agricultural machinery client.
- Collaborated with cross-functional teams and client stakeholders to build and maintain systems and data for machinery service and management.
- Applied a versatile tech stack including PHP, Kotlin, JQuery with Twig, MySQL, Azure and containerization to architect and implement robust software solutions, ensuring optimal performance and scalability.
- In addition to feature development and project road mapping, I actively engaged with the client QA team in testing code, deploying and incident response. I was on call 24/7 tri-weekly monitoring and resolving any outages through PagerDuty.

Matterport | Back End Software Engineer | August 2020 – August 2022

- Back end software engineer on the Platform team where I contributed significantly to the creation and scalability of the new Capture Services product, an end-to-end SaaS delivered as a microservice. Capture Services contributed to 2x growth in services revenue.
- Developed, maintained, and tested software, with a focus on REST, GraphQL and 3rd party API integration. The day-to-day tech stack included Kotlin, Typescript, AWS, and Docker.
- Owned multiple features within the project, including but not exclusive to, Geocoding, address suggestion, creation of the Capture Services Job view, photo upload and download.

MFS Investment Management | Quantitative Research Associate Intern | June 2020 – August 2020

- Managed and developed an events study module to create data-driven models to aid portfolio managers in understanding how various types of events affect security returns.

Matterport | Software Engineer Intern | May 2019 – August 2019

- Completed the full-stack development of a digital flyer generator delivered as a microservice to aggregate in-house and 3rd party data through API calls to help customers visualize and understand data of a mapped physical space.

ID Tech | Online Instructor | October 2018 – June 2020

- Taught one-on-one and group lessons to students ages 6-20, in a variety of subjects, including but not limited to introduction to programming, AP Computer Science test prep, and college level intro to computer science coursework.

University of Kansas, School of Engineering, Humanoid Engineering, And Intelligent Robotics Lab | Lead Researcher | August 2018 – May 2019

- Under the guidance of Associate Dean Dr. Andrew B. Williams, completed an individual research project to enhance popular commercial robots (e.g., SoftBank Pepper) SDKs to aid those with developmental and physical disabilities.

EDUCATION

M.S. Computer Science | Dec 2022 | Southern Methodist University

- Specialization in A.I. and Machine learning with core courses including but not exclusive to: Machine Learning in Python, Artificial Intelligence, Cloud Computing, Data Mining
- Software Engineering related electives include Information Retrieval and Web Search, Software Requirements, Software Testing and Quality Assurance, and User Interface Design.
- Notable projects include feature analysis using PCA on the Stanford Dogs Image Dataset, Data Preparation and Cluster Analysis on Google COVID-19 Community Mobility Data, a research paper on Requirements Elicitation and a WebCrawler using Python (Beautiful Soup) implementing querying with similarity score analysis, and tracking term frequency using porter stem analysis.

B.S. Computer Science and Mathematics (double major) | May 2021 | University of Massachusetts, Boston

- Capstone project was to create a mind map, both back end and front end. Tech stack included, Node.js, JavaScript, HTML, CSS and MySQL.
- Completed independent research paper on non-Euclidean geometry and wallpaper groups under the guidance of Dr. Grinberg, Ph.D., Mathematics, Harvard University.

CERTIFICATIONS

- Professional Scrum Master I (PSM I), <https://scrum.org/certificates/989593>
- Professional Scrum Developer I (PSD I), <https://scrum.org/certificates/990022>
- Graduate Leadership Certificate, Southern Methodist University
- Service Learning Certificate, University of Kansas (Completed 60+ hrs Community Service in 1 semester)

OTHER ACCOMPLISHMENTS AND EXPERIENCE

- STEM Programs Director and Coach for Non-profit Rae's Hope (September 2022- present)
- Dog Foster and Shelter Volunteer, (February 2022 - present)
- Big Sister Community Based-Match, Big Brother Big Sister (Jan 2017 - Jan 2019)
- Power Hour (Homework) Lead, The Boys and Girls Club (Jan 2016 – Jan 2017)