

Marko Al-Hamadani

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EDUCATION

Oregon State University

Bachelor of Computer Science

Oregon, US

Sept. 2024 – Dec 2028

University of Toronto

Master of Engineering in Biomedical Engineering

Toronto, ON

Sept. 2019 – Dec 2020

WORK EXPERIENCE

Research Impact Analyst

University Health Network

Oct. 2021 – April 2024

Toronto, ON

- Developed Excel Macros using VBA to automate monthly data pulls, reducing report generation time by 85%
- Authored company-wide dashboards in PowerBI, combining cross-departmental data sources, reducing time spent generating figures and tables manually in excel by 90%

Software Engineering Intern

Toronto Rehabilitation Institute (KITE)

April. 2020 – Aug 2020

Toronto, ON

- Developed a user-friendly mobile application using Android Studio that allows for recording, visualization, and sharing of audio signals
- Created and organized user login and signup using MySQL and hosted using AWS RDS

VOLUNTEER EXPERIENCE

Software Engineering Intern

BeaverHacks Next - Oregon State University Hackathon Club

April 2025 - Aug 2025

Oregon, US

- Developed a web enabled tool designed to support hackathon teams that want to continue developing their projects beyond the event
- Designed and developed logical database schema for team and project related data using Prisma
- Leveraged Next.js to construct a frontend UI, integrating a PostgreSQL database with a client-side sponsor dashboard and project sign-up page

PROJECTS

URLsnip | *Vite, Python, FastAPI, Supabase*

- Built a URL shortener frontend and API using Vite and Python using caching to speed up short-link generation
- Implemented unique string generation with Base64URL encoding to generate 5-character short URLs
- Developed RESTful endpoints in Python to handle client side requests

StockTracker — Congressional Financial Disclosure Tracker | *Python, Supabase*

- Engineered a PDF extraction system to parse unstructured documents and load structured transaction records into a PostgreSQL database across three tables (Members, Filings, Filing_Data)
- Designed an XML index parser to extract document identifiers, web scrape Financial Disclosure Reports, download relevant PDF's, and upsert member and filing records
- Developed a CLI query tool with filtering capabilities (by member name and date) using rich for formatted terminal output

QuikTalk | *React, Node, MongoDB, Express, Socket.io*

- Designed and developed a social media platform for users to send and receive messages in real time using Socket.io
- Designed using MVC architecture, Node to handle server-side processing, React.js for front-end rendering, and MongoDB to store unstructured data objects for chat logs and user info

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, R

Frameworks: React, Node.js, Flask, JUnit, WordPress, Material-UI, FastAPI

Developer Tools: Git, Docker, TravisCI, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse

Libraries: pandas, NumPy, Matplotlib