MANDY
MEINDERSMA

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currently Canada, want to relocate 🏠

💼 EXPERIENCE

Senior Software Developer | DrugBank

June 2022 to December 2022 – Medical Drug Database – Edmonton
Led the Data Engineering efforts of a 9-person team that parsed over 60,000 clinical trials.
Resurrected a 14+ year old unbuildable repo to then having 15+% code coverage with unit tests.
Made technical architecture decisions that would impact the maintainability of the system.
Responded to daily customer support issues quickly and with detailed instructions to help them.

Backend Developer 2 | Dotdash Meredith

October 2019 to June 2022 – Publishing Company – Edmonton
Designed + coded complex features in **Java** and **Spring** to be used by 27+ downstream teams.
Built microservices to pull + preprocess data from 1.5M+ pages for low latency (Leaderboard).
Utilized **Elasticsearch** to monitor data migrations + logs on over 40 sites to create high durability.
Trained 40+ developers by writing onboarding documentation, code along exercises and quizzes.
Created performance-first features using multiple forms of caching (ex: **Redis** and Ehcache).
Contributed to a headless CMS that held content on sites which have over 6.5M page views/day.
Designed a solution that connected editorial data to data consumed from the IBM Micromedex
     Detailed Drug Information for Consumers and learned some drug terminology.
Gathered data from various API's (Instagram, Meredith, etc.) and CSV's created by editors.
Accepted requests from 27 other teams to create internal models, worked with them to flesh out
     requirements and completed these tasks on time while communicating to stakeholders.

Contract Instructor | NAIT

September 2019 to December 2019 – Post Secondary Institute – Edmonton
Instructed 25 students about the fundamentals of web development (**HTML + CSS**)
Marked assignments + labs and attended staff meetings to ensure consistent evaluations.
Answered students' questions and ensured their understanding of the material.

Software Engineer Intern | Intuit Canada + Intuit USA

January 2017 to August 2018 – Financial Software – Edmonton + Mountainview, California
Coded Front-End, Back-End and User Interface automation while on 12-person team.
Specialized in coding **React.js**, **Redux** and **Dojo** and having at least 85% of code unit tested.
Learned how to make applications more accessible for users with disabilities using ARIA.
Debugged Internationalization errors when translating to over 8 languages.

Imaging Programmer | Mazakowski Heart Institute

November 2016 to March 2018 – Research lab – Edmonton, Alberta
Refined an existing code base to analyze Cardiac MRI's allowing analysis of abnormalities. Ran
user studies on physicians to iterate on the user interface with continuous feedback. Presented
at multiple conferences around Canada about my lab research work.

🎓 EDUCATION

Bachelor of Science, Specialization in Computing Science | University of Alberta

Graduated: May 2019 - **Courses:** web development (**JavaScript**), Android + **Java** development,
software lifecycle, TDD, algorithms, **Python**, robotics + **ROS** (goo.gl/9WGGDr), machine learning.

VOLUNTEER

Hardware Track Speaker Reviewer | Grace Hopper Celebration
April 2023 to May 2023 – Largest conference of women in tech, roughly 25,000 attendees.
Reviewed 100+ speakers from around the world in a very tight timeline to create the schedule.

Board Member | Dev Edmonton Society
February 2021 to Present – Create a huge network of Edmonton developers.
Created board meeting agendas to organize over 4000 members and developed our site.

Founder and Committee member | YEG Women in Tech
August 2019 to Present – Support women and allies in technology.
Created a place where minorities feel comfortable to share their vulnerabilities and grow.
Partnered with companies to host networking, socialization and career development events.

PROJECTS

Types of Dev Workshop - February 2023 - Made bugs for students to find and solve.
Dev Edmonton Website - Since 2021 - Manage open-source repo, and for Hacktoberfest!
Codevid - June 2020 – Lead a global hackathon where our website had over 10K hits in one day.
Meeting buddy - February 2020 - Made an IoT button to report meeting room status.
Rotary phone - January 2020 - Hacked an old rotary phone to dial on my cell phone.
AAAI Outreach - January 2019 - Designed robotic experiment to aid children with autism.
Mentoring - Since 2019 - Mentored high school and university students through hackathons.
Hardware - Since 2010 - Tinkered with components to light them up and learn about them.