





MEI YI NIU

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EXPERIENCE

May 2019 -
Aug 2019

OMERS

Full Stack Developer

- Revamped the legacy website with a dynamic client portal using **Angular** and **Node.js**, improving and streamlining pension processes for **490 000+** members and **1000** employers
- Created an NFR application as a security liaison between the databases and API **Docker** containers of the website and the front-end processes
- Developed the above application to log all API calls in **MongoDB**, serving as a front-end tool for administrators and developers to monitor business processes and errors
- Developed a **Springboot** application to synchronize and update information in **Salesforce** databases of objects
- Tested the product through various phases of its continuous delivery, including system integration testing, regression testing, user acceptance testing

Jul 2018 -
Aug 2018

ROYAL BANK OF CANADA

Innovation Software Developer/Analyst

- Collaborated on innovation projects in **Agile** methodology to solve business problems faced by teams in different departments at RBC, e.g. problems in financial literacy and recruitment
- Used **Angular** to develop a website as an internal tool to process inquiries from a system of **80 000+** employees pursuing continuing education, saving **\$90 000** per year
- Created and delivered business presentations to executive members of RBC

PROJECTS

May 2019

PEST-AI-CIDES Semi-finalist - Microsoft x Agorize Discover AI: Sustainable Life Challenge

- Designed and developed a prototype for a system that calculates efficient routes, techniques, and scheduling of pesticide application using **Azure Machine Learning** service
- Integrated data-driven techniques into existing Azure FarmBeats architecture to decrease pesticide usage by **22%** while maintaining efficacy

Feb 2019

WEG-BUDDY

- Developed a meal-planning application based in **Google App Engine** that, using sentiment analysis, recommends meals made with Wegman's products
- Used **Cloud Firestore** to store and query information about the user so that future meal recommendations could be customized for the user

Sep 2018

TRACECAR

- Developed and built from scratch a miniature line-following robotic vehicle using **Arduino** and motor drivers
- Wrote custom dynamic drivetrain based on inputs from infrared sensors

EDUCATION AND AWARDS

Sep 2018 -
Present

UNIVERSITY OF WATERLOO

Bachelor of Software Engineering (BSE)

- Isabel Farrar Scholarship: awarded to outstanding female students based on academic and extracurricular achievement

LANGUAGES/TOOLS

Languages: C | C++ | Java | Python | Javascript | Typescript | Scala | HTML/CSS
Tools/Frameworks: Angular | Node.js | MongoDB | NoSQL | SQL | RESTful APIs
Docker | Spring, Springboot | GCP | OData, Olingo | ANT | Arduino