SHELA QIU

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EDUCATION

UNIVERSITY OF WATERLOO Candidate for Bachelor of Software Engineering 2021

LANGUAGES

LANGUAGES Java, Python, Scala, C++ FRAMEWORKS Spring MVC, JUnit, React

EXPERIENCE

SOFTWARE ENGINEERING INTERN LinkedIn
May 2019 - August 2019 | Sunnyvale, CA

- Conducted experiments to predict advertisement click-through rate on LinkedIn
- **Scala**, **Spark** : developed and evaluated a similarity model using advertisement language embeddings
- **Python**, **Keras** : implemented an **LSTM** model to predict advertisement click-through rate
- Migrated Spark jobs from Avro to ORC format to speed up performance by **50%**

BACKEND DEVELOPER INTERN Cognite
September 2018 – December 2018 | Oslo, Norway

- Reconfigured GeoMesa integration from HBase onto **Bigtable** to enable queries over time and space
- Architected a microservice using MVC framework (**Java, Jetty**). Deployed using **Docker**, **Kubernetes**
- Organized an internal company hackathon, and Girls' Geeks data science workshop for Pattern Search

SOFTWARE DEVELOPER INTERN Tesla
January 2018 – April 2018 | Palo Alto, CA

- **Python**, **Pyramid**, **React** : developed web application used by service technicians for car diagnostics
- Redesigned and built the customer support system to triage **200** emails/month
- Decreased by **10x** the number of support cases handled by the service engineering team, by architecting a multi-level escalation system

SOFTWARE DEVELOPER INTERN Loblaw Digital
May 2017 – August 2017 | Toronto, ON

- Optimized API endpoint logic for the Click N' Collect platform in **Java**
- Generated mock data for vouchers and weekly flyers to be used by automation testing
- Implemented extensive software tests with **JUnit**

SOFTWARE DEVELOPER INTERN Biomarker Imaging Research Lab (Sunnybrook Research Institute)
Summer 2015, Summer 2016 | Toronto, ON

- Sped up front-end development time by 75% by automating JavaScript UI form element layout
- Optimized data migration and validation processes by 50% using VBA macros and SQL

PROJECTS

UOMI github.com/shelaq/hackthe6ix-project
- Designed the software architecture and RESTful API for a debt manager web app
- Implemented a back-end using **Flask-PyMongo** and **MongoDB**

MINI-OS
- Built a lightweight operating system in **C**
- Implemented stack, heap, PCB table, context switching, interrupt handling

ACTIVITIES

TECHNICAL PROJECT LEAD Plastics for Change (UW Blueprint)
January 2018 – present
- Led a team of 8 developers to develop an inventory tracking system for recycled plastics
- Mentored developers, guided architectural decisions, performed code reviews

LOGISTICS COORDINATOR (TRAVEL) Hack the North
March 2017 – October 2018
- Collaborated with a team of 30 organizers to plan Canada's biggest hackathon
- Organized 8 local and international bus routes for 600+ participants