SHELA QIU

shela.qiu@uwaterloo.ca | +47 92 53 29 15 (Norway) | github.com/shelaq | linkedin.com/in/shelaqiu

EDUCATION

UNIVERSITY OF WATERLOO Candidate for Bachelor of Software Engineering 2021
- 3.7 GPA, Dean's Honours List

LANGUAGES

LANGUAGES Java, Python, JavaScript, SQL, C++   **FRAMEWORKS** Spring MVC, JUnit, React, Pyramid

EXPERIENCE

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

- Integrating GeoMesa on Bigtable into a Java backend to enable queries over time and space

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

- Developed web application used for car diagnostics: Python, Pyramid, React
- Redesigned and built the customer support system to triage 200 emails/month
- Rewrote backend services for the application API, working with a hexagonal architecture
- Wrotes tests in PyTest for new backend services

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

LOBLAWS MESSENGER github.com/torvarun/loblaws-messenger
- Collaborated on a Facebook Messenger bot using Node.js
- Won the API prize sponsored by Loblaws

WIND TUNNEL
- Developed real-time computational software in Java to analyze lift, drag and wind speed
- Used Ardulink to interface between the GUI and Arduino input from pressure sensors

ACTIVITIES

LOGISTICS COORDINATOR (TRAVEL) Hack the North
March 2017 – Present
- Collaborated with a team of 30 organizers to plan Canada's biggest hackathon
- Organized 8 local and international bus routes for 600+ participants
- Collected information from multiple stakeholders to design a QR scanning application for the event
- Developed a Python application to find flight prices for international participants

DIRECTOR OF PRINT DEVELOPMENT The Reckoner (Independent Student Newspaper)
2013 – 2016
- Recruited and trained six members of the Print Development board in InDesign

AWARDS

National AP Scholar with Honor, College Board
2nd Place Fifth Annual Operations Research Challenge, University of Toronto