

Osman Hajiye

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Education

University of British Columbia - Bachelor of Science in Computer Science

Graduation: May 2019

- **Outstanding International Student Award** recipient
- **Full-ride scholarship** recipient for academic and extracurricular achievement
- Relevant courses: Machine Learning and Data Mining, Advanced Operating Systems, Computer Graphics, **Data Structures and Algorithms, Advanced Algorithm Design and Analysis**, Artificial Intelligence, Computer Vision, Internet Computing, Software Engineering

Skills

Programming languages: Java, C, C++, Python, SQL, HTML, CSS, JavaScript, TypeScript, PHP

Tech: React, Node.js, Git, Object Oriented Programming (OOP), MySQL, AWS, Agile (Scrum)

Languages: English, Russian, Turkish, Azerbaijani

Projects

Microsoft Discover AI Challenge 2019 Finalist (Top 5 out of 250+ teams) - Software Engineer

Source code: github.com/osmanhajiye/EarthQuick (Python, Flask, HTML, CSS, Azure)

- Applied machine learning (LightGBM) with the goal of predicting the time remaining before the next artificially generated laboratory earthquake
- Created a web app for users to interact with the plotted predictions
- Presented findings and potential opportunities to the Microsoft Leadership team at Microsoft Canada HQ

Microkernel x86 Operating System - Software Engineer

Source code: github.com/osmanhajiye/personalOperatingSystem (C, x86 Assembly)

- Developed a basic kernel and provided OS memory handling
- Implemented inter-process communication through system traps/interrupts
- Built a device driver handler and integrated keyboard with the operating system

Vancouver Startup Weekend Hackathon Finalist - Full-Stack Developer

Source code: github.com/osmanhajiye/OpenHouseApp (HTML, CSS, JavaScript, MongoDB, Node.js, Express)

- Built an interactive web app that displayed available houses for rent within a selected area
- Created selection tools on top of Google Maps API to provide the ability to choose desired rental locations

FTP Server - Back-End Developer

Source code: github.com/osmanhajiye/FTPserver (C, TCP/IP, FTP protocol)

- Developed a simple multi-client FTP server using TCP sockets

Work Experience

HAT Medicine - Web Developer

May - August 2017

- Created various features on the company's website (hatmedicine.com) and worked on front-end quality assurance to improve functionality and user experience
- Achieved up to 5000 additional unique visitors per month and 100000+ page visits per month

Computer Science/Programming Summer Instructor Volunteer

June - August 2017

- Taught CS fundamentals and object-oriented design to high-school and middle-school students