Darren Li

Candidate for Bachelor of Software Engineering | University of Waterloo | Class of 2023

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SKILLS

- Languages: Python, C++, Java, JavaScript, SQL, YAML, HTML, Groovy, RISC-V, VHDL, MIPS
- Tools/Frameworks: AWS, Kafka, Spring Boot, Node.js, Jenkins, Git, Maven, Docker, Junit, Mockito, Hystrix, Resilience4j, Express, Sumo Logic, Avro, SNYK
- Other Skills: Linux, Bitbucket, IntelliJ, Jira, Teams, Confluence, Postman
- Excellent leadership and teamwork skills (Led development of feature, captain of sport team, coaching)
- 3X Term Dean's Honour List (Engineering)
- Courses: Data structures (93), Software Engineering Principles (OOP) (91), Database Systems (99)

EXPERIENCE

BACKEND/DEVOPS DEVELOPER (SPEECH RECOGNITION CONNECTOR) - GENESYS, MARKHAM Sept 2020 - Current

- Led the development of enabling high throughput publishing of text transcription results to other services, transmitting over 40000+ Kafka events per minute, by designing a Java concurrent task scheduler
- Implemented Kafka consumer client to allow other services to communicate and send notifications about configuration changes within milliseconds, by consuming custom state change events
- Integrated SNYK Security Platform service to scan for security issues every Jenkins pipeline deployment, eliminating 30+ possible dependency vulnerabilities and attack types

DEVOPS/SOFTWARE DEVELOPER (VOICE PLATFORM) - GENESYS, MARKHAM

Sept 2019 - Dec 2019

- Implemented AWS EC2 Auto Scaling and monitoring for Docker Microservice to create a highly scalable and maintainable application, saving up to 70% in costs
- Took ownership of automated gdb crash debugger Python script that analyzed AWS core dump files and graphed data with Matplotlib, increasing reporting speed by 400%
- Integrated CloudWatch dashboard and alarms for easy monitoring and alerts, tracking application health such as CPU and memory usage; configured with AWS SDK for Python
- Developed AWS Cloud Formation templates in YAML that work across all AWS regions, allowing for easy and automated configuration during deployment

SOFTWARE QA ANALYST - SONOVA-UNITRON CANADA, KITCHENER

Jan 2019 - May 2019

- Initiated development of Python tool to modify configuration XML files that increased testing speed by 70%
- Implemented C# script to update outdated language files, reducing manual verification by over 400%

PROJECTS

EzCollab – (Node.js, JavaScript, HTML, CSS) <u>ezcollab.lidarren.me</u>

- Developed online screen sharing service to synchronously draw (HTML canvas) on a screen share video stream and easily collaborate with other web users
- Configured proxy for new connections via Nginx to establish a Socket.IO WebSocket connection to EC2 Instance Express server to track stream status and negotiate a WebRTC peer connection with the broadcaster

Garage Door Recognizer – (OpenCV, Python)

Dec 2019

Developed image processing algorithm using OpenCV to determine garage door state, with over 90% accuracy, and notified users of any doors left open via email/SMS using a Raspberry Pi

RehabiliNation – MakeUofT 2019 (2 category wins) (Python)

Feb 2019

Enabled people with disabilities to play modern games by utilizing Arduino and IMU sensors to create controller BreadCrumbz – uOttaHack 2019 (4th place overall) (Python) Feb 2019

Developed algorithm to integrate the delivery of surplus supermarket produce to homeless shelters into commute route by utilizing Google Maps nearby search, directions, and route APIs

TEAMS

2018

- Designed and led mechanical system operation/design of VEX robotics team; developed gameplay strategies
- Established and grew club to over 50+ members; helped secure over \$10,000 in funding

Sports

Robotics

2018 Athlete of the Year; 4+ years volleyball and badminton; YRAA Gold, OFSAA Bronze, MVP; Intramural .

OTHER QUAL.

Vision Youth Leadership Program (Duke of Edinburgh Award – Bronze); practiced team building and leadership skills, project management when planning hikes; Toast Master presentation skills