Ravi Seth

Mechatronics Engineering Student | Mobile & Web Developer

github.com/rksseth
linkedin.com/in/rksseth
(519) 993-7284
ravi.seth@uwaterloo.ca

EXPERIENCE

Amazon Web Services — *Software Engineering Intern*

Vancouver, May - August 2020

- Created a **large-scale data processing and validation system** for data analytics and statistical comparison; improved data error diagnosis, identification, and pipeline debugging within <u>AWS Machine Learning team</u>
- Conducted **data-driven experiments** to characterize multiple data validation libraries and **recommend hybrid solution** using AWS, Apache Spark, Python, and Scala
- Achieved ETL & ML pipeline requirements for processing and validating **3.5 terabytes of data in under 8 hours** by using distributed processing and scaling hardware in AWS EMR

Klyck.io — *Full Stack Developer*

Waterloo, May - Aug. 2019 and Jan. - Apr. 2020

- Developed **REST API** in **scalable microservice** to allow seamless viewing and collaboration of Office 365 files, using Java, Kubernetes, Lagom and Play Framework
- **Passed 100% of test suite** for REST API and front-end UI to ensure viewing, file locking, editing, and co-editing of files
- Deployed new features and bug fixes in a fast-paced environment to **10000+ mobile and web users**, using Angular and TypeScript

University of Waterloo — *Software Developer*

Waterloo, Sept. - Dec. 2018

- Improved file protection and security by developing **mobile app and REST endpoints** for two-factor authentication, using Android and Java

PROJECTS *(see full list at* rksseth.github.io*)*

WeSchedule — *Online Scheduling Platform Startup*

Jan. 2017 - present

- Designed easy-to-use, real-time web app to **automate scheduling**, using Angular, TypeScript, and Firebase
- Ensured **maintainable, efficient, and scalable** code through researching best-practises and code reviews
- Completed 5+ sprints, 200+ features and bugs using Trello for ticket management

SKILLS

Languages

Java, TypeScript / JavaScript, Python, Swift, C++, Scala, C#

Libraries / Frameworks

Apache Spark, Angular, Node, Ionic, TensorFlow, OpenCV, Mocha, NPM

Tools

Git, AWS, Android / iOS Development, Docker, Postman, Unit Testing, Firebase, Kubernetes Microservices

EDUCATION

University of Waterloo
Mechatronics Engineering Co-op
Sept. 2016 - June 2021

COMPETITIONS

Amazon Alexa Skills Hackathon— *Runner up out of 1000+ participants*

August 2020

UWEnergyHacks Hackathon — *Winner of "Best Design" out of 150+ participants*

May 2019

World Squash Championships — *2x Team Canada Athlete*

Aug. 2016 and Sept. 2018

National Squash Champion — *2x*

Dec. 2011 and Mar. 2020