KAEL BOSLAND

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Employment Experience

Amazon Web Services (EC2 Auto Scaling), Vancouver, BC **June 2019 – September 2019**
Software Engineering Intern

- Increased performance of launching spot instances for AutoScaling groups using launch configurations by migrating to a new and improved launch strategy
- Enhanced the efficiency of my teams testing by creating a set of bash scripts outside the scope of my project to help automate the process of testing new features locally
- Wrote end-to-end integration tests using Cucumber and integrated them into the deployment pipeline
- Participated in the full software development lifecycle when implementing a new feature for mixed instance groups

Ontario Financing Authority (OFA), Toronto, ON **April 2018 – May 2019**
Junior Developer

- Boosted the speed of queries by converting in-line SQL scripts used in MVC applications to stored procedures
- Increased efficiency of user and data verification by adding client-side verification to the front-end of internal applications using JavaScript, therefore lowering calls to verification microservices
- Configured networking of .NET Core web applications to communicate with SQL Server and WCF services effectively
- Collaborated closely with high level members of the Banking department to implement new features in web applications to enhance user experiences

Projects

Tag Along **March 2019**

- Using Google AR Core, Google Cloud SQL and Unity, created an immersive social engagement tool that fosters close-knit connections with like-minded individuals to stop social isolation in its tracks. Created at Hackville 2019, won awards for 2nd Place Overall, Best UX, 2nd Best Solution for Social Isolation
- Link to the app: https://devpost.com/software/tag-along

Self Driving Car AI **February 2019 - Current**

- Using Python, created a smart self driving car simulation that uses a made from scratch collision detection and sensor system to avoid obstacles on a racetrack. Currently working on finding the optimal path around the track using a reward system and deep reinforcement learning

ASP .NET Core MVC Web App **July 2018**

- Used as a university manager app, where students can register accounts, log in, enroll/drop classes and send each other emails – all data was stored in an SQL Server database through stored procedures
- Added client-side verification using JavaScript functions to completely prevent possibility of errors in applications as well as microservices to increase separation of concerns

Education

- 4th Year Honours Bachelor of Computer Science at McMaster University

Skills Summary

- **Languages:** Java, C#, Python, JavaScript, SQL, C++, C, Bash
- **Other:** Git, ASP.NET, ASP.NET MVC, Linux/UNIX, HTML 5, CSS, Angular, Django, Entity Framework