Mackenzie Sampson

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TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, Java, C#, SQL
Frameworks/Tools: React, Docker, Node.js, WebRTC, Webpack, NPM, MongoDB, AWS, Jenkins

EXPERIENCE

Electronic Arts

Tool and Pipeline Engineer *Sept 2019 – Aug 2022*
Technologies: C#, Python

- Maintained and served as the primary point of contact for all FIFA 21-23 Switch pipelines, which involved processing tens of thousands of assets across the production cycle.
- Developed C# tools to streamline artist workflows, with a particular focus on asset conversions and processing.
- Created a Maya plugin to automate collider integration and hair weights attachment for FIFA players, resulting in improved efficiency and accuracy.
- Trained artists on dev environment setup and testing for Nintendo Switch, resulting in faster adoption and smoother workflows.
- Collaborated with cross-functional teams, including QA, Build Engineering, and Art, to ensure timely and successful delivery of assets for each milestone.

SAP

Software Engineer Intern *May 2017 – Dec 2017*
Technologies: Python, Selenium

- Created automation solutions using Python and Selenium, reducing a monthly workload by 50+ hours for the team.
- Collaborated with engineering teams to analyze open source libraries for legal compliance prior to integration into SAP BusinessObjects Cloud.

MDA

Junior Software Engineer *Jan 2016 – Sep 2016*
Technologies: JavaScript, C#

- Designed and developed a mobile-friendly corporate website, utilizing JavaScript and C# for optimal performance and user experience.
- Managed site rollout using Microsoft IIS to monitor stability, assign security certificates, and stage internal domains.
- Optimized script runtime performance across various browsers by monitoring network stats within dev tools and reducing load times where possible.

PROJECTS

VanCity Parking: Web app that displays all public parking meters in Metro Vancouver on a searchable map interface. Using **JavaScript**, **React**, and the **Google Maps API**, I cleaned and stored CSV meter data in a **MongoDB** database, and plotted meter locations using **geospatial** data.

EDUCATION

University of British Columbia

Bachelor of Computer Science (*3.7 GPA*) *Sept 2015 – Nov 2020*
Teaching Assistant – CPSC 310: Intro to Software Engineering *Sept 2018 – Dec 2018*