Glen Simon

Cloud Software Engineer 2,
TechSmith Corporation

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Languages

- TypeScript ●●●●●
- JavsScript ●●●●○
- C# ●●●●○
- HTML / CSS ●●●●○
- Python ●●●○○

Technologies

Front-End: React, Redux, Axios, Styled Components, NodeJs, ExpressJs

Back-End: .NetCore/Standard, Entity Framework Core, Swagger, Auth0

Testing: Jest, Enzyme, Pa11y, Puppeteer, Moq

Tools: Azure Portal, Azure DevOps, Azure Application Insights, Visual Studio, Visual Studio Code, Lens

Other: Git/Github, Github Actions, Docker, Kubernetes, LaTeX

Skills

Collaboration • Agile • Written & Verbal Communication • Problem-Solving • Accountability • Empathy

Working Experience

2019 - Now **Cloud Software Engineer 2** TechSmith Corporation

Developed websites, single page applications, micro front-end components, and component libraries.

Wrote comprehensive unit, integration, and accessibility tests.

Created, extended, and maintained .Net APIs and web jobs.

Leveraged and improved CI/CD pipelines to expedite development and automate testing.

Reduced daily authorization token requests from thousands to a single request per app by refactoring large portions of code and implementing a double layer caching system that could effectively handle scaling.

Integral in the architecting and implementation of a system designed to offer cloud-driven in-app content for our desktop products.

2017 – 2019 **Graduate Research Assistant** Michigan State University

Developed the Evo-ROS framework which integrates evolutionary search capabilities with the Robot Operating System (ROS).

Integrated custom control software with ROS to implement autonomous driving in a simulated environment.

Facilitated the build process of a 1:5 scale autonomous research vehicle.

Education

2017 – 2019 **Master's Degree - Computer Science** Michigan State University
Focus on evolutionary algorithms, artificial neural networks, autonomous systems, and computer networking. GPA: 3.95

2014 – 2016 **Bacholer's Degree - Computer Engineering** Michigan State University
Cum laude, Dean's List, GPA: 3.87

Projects

2020 – Now **Foundry VTT Modules**
Developed and actively maintain free to use modules that add additional functionality to a popular virtual table top system. Remain active in the community to address bug reports, feature requests, and offer regular updates.

Publications

2019 **Applying Evolution and Novelty Search to Enhance the Resilience of Autonomous Systems**
M. A. Langford, G. A. Simon, P. K. McKinley, and B. H. C. Cheng
IEEE/ACM 14th International Symposium on Software Engineering for Adaptive and Self-Managing Systems (SEAMS), Montreal, QC, Canada

2018 **Evo-ROS: Integrating Evolution and the Robot Operating System**
G. A. Simon, J. M. Moore, A. J. Clark and P. K. McKinley
Proceedings of the Genetic and Evolutionary Computation Conference, Kyoto, Japan

2017 **Evo-ROS: Integrating Evolutionary Robotics and ROS (poster summary)**
J. M. Moore, A. J. Clark, G. A. Simon and P. K. McKinley
Proceedings of the IEEE/RSJ International Conference on Intelligent Robots and Systems, Vancouver, BC, Canada

Presentations

2018 X-PLORE / Evo-ROS Update 2, PI meeting for AFRL Resilient and Trusted Systems Program, Ann Arbor, MI

2018 Evo-ROS: Integrating Evolution and the Robot Operating System, Genetic and Evolutionary Computation Conference, Kyoto, Japan

2017 X-PLORE / Evo-ROS Update 1, PI meeting for AFRL Resilient and Trusted Systems Program, Miami, FL

2017 Evo-ROS: Applying Evolution to the Robot Operating System (poster summary), International Conference on Intelligent Robots and Systems (IROS), Vancouver, BC, Canada