



Glen Simon

Cloud Software Engineer,
TechSmith Corporation

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Languages

- TypeScript ● ● ● ● ●
- JavaScript ● ● ● ● ●
- C# ● ● ● ● ●
- HTML / CSS ● ● ● ● ●
- Python ● ● ● ● ●
- SQL ● ● ● ● ●

Technologies

- Front-End:** React, Redux, Axios, Styled Components, NodeJs, ExpressJs
- Back-End:** .NetCore/Standard/CLI, Entity Framework, Swagger, Auth0
- Testing:** Jest, Pa11y, Puppeteer, Moq
- Tools:** Azure Portal, Azure DevOps, Azure Data Studio, Visual Studio, Visual Studio Code, Lens, Insomnia
- 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 applications.
 - Leveraged and improved CI/CD pipelines to expedite development and automate testing.
 - Utilized application insights to monitor traffic and diagnose user issues on live sites.
- 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, machine learning, autonomous systems, and advanced computer networking. GPA: 3.95
- 2014 - 2016** **Bachelor'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.
- 2018** **Custom Fitbit Watch Face**
 - Designed a watch face using the Fitbit SDK that was compatible across available devices as a personal incentive to learn Javascript, CSS, and working with SVGs.

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