

Michael Belousov

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<https://mikemikeb.com> (if it's underlined it's a link!)

Education

UNIVERSITY OF CONNECTICUT, Storrs, CT
Bachelor of Science, Computer Science and Engineering, May 2019

Select Open-Source Contributions

- ▶ [lint-staged](#) npm package
- ▶ [typescript-eslint](#) npm package
- ▶ [Godot](#) game engine
- ▶ [netaddr](#) python package
- ▶ [onivim2](#) text editor written in Reason

Experience

Bentley Systems, *Software Engineer II* (May 2018—Resigned May 2024)

- ▶ Introduced fuzzing, sanitizers, clang static analysis, and other tooling to native buildology
- ▶ Led architecture and design for our next-generation desktop application framework, mentoring all team members and helped manage day-to-day development
- ▶ Led (solo) development and deployment of the iTwin platform Unreal Engine integration: an electron application bridging Datasmith C++ SDK to iTwin Node.js APIs, wrote marketing webpages, tutorials, blogs, and update service.
- ▶ Mentored contributors and led development of the *Transformation* core API for the iTwin platform, a TypeScript Node.js API with a native C++ addon component,
- ▶ Contributed to multiple customer facing full-stack applications with Node.js, React, ASP.NET C#, C++, MongoDB, and SQLite
- ▶ Produced a webinar promoting the product I led development of on our platform, and blogged about our platform publicly, see the **Technical Writing** section below

ITS, *Security Analyst and Developer* (December 2016—May 2019)

- ▶ Created an SVG network diagramming toolset using SNMP, CDP scanning, and a custom CISCO router CLI parser
- ▶ Migrated a PHP-Python2 XMLRPC+jQuery web stack into bilingual Python3+Vue.js

UCONN Speech and Hearing research, *Technical consultant*

(March 2017—July 2018)

- ▶ Built (solo) interactive simulation software (a game in Unreal Engine 4) for tracking user navigation, for neurological research
- ▶ Built (solo) a TkInter Python app for top-down playback of participant sessions and export of data to Excel

Technical Competencies

Zig, C++/C, TypeScript, Python, GNU/Linux+Bash, Git, React, Node.js, Rust, OpenGL/GLSL, .NET, HTML5/CSS, SQLite, Postgres, MongoDB, PHP, Godot, Unreal Engine, Azure, Rust, Electron, VSCode extensions, Scheme, Java

Technical Writing

[introducing @bentley/imodel-react-hooks](#)
[iTwin Platform Unreal integration tutorials](#)
(ask me why this integration was deprecated!)
[Evolve your iTwin with Unreal](#)
[Bringing your iTwin into Unreal](#) (webinar video)