

Michael Belousov

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[LinkedIn](#)

[GitHub](#)

Technical Skills

Languages: TypeScript/JavaScript, C++, Python, C, Zig, Rust, SQL, C#

Backend: PostgreSQL, MongoDB, Linux, Node.js, nginx, gRPC, Redis

Cloud: Terraform, Docker, Azure containers, Azure Monitor, Azure Storage, Azure Functions

Frontend: React, Vite, Webpack, GraphQL, CSS, Express, Playwright, WebAssembly

Tools: Git, GNU/Linux, GitHub Actions, Azure Pipelines, GDB, Valgrind, neovim

Professional Experience

BENTLEY SYSTEMS

May 2019—May 2024

Software Engineer II

Exton, PA

- Led architecture and design for our next-gen **Electron**-based desktop app framework, mentored midsize team of **10+** junior to senior level engineers and managed development
- Led team of 5 engineers building APIs for transforming data in the iTwin Platform, in **TypeScript, Node.js, and C++**
- Implemented **5-10× speed** improvement of Transformation API through profiling and eliminating IO bottlenecks, after taking over service ownership
- Built several customer-facing full-stack applications leveraging **microservice** architectures , **Node.js, C++, React, ASP.NET, MongoDB, and Redis**
- Designed **30+** CI/CD pipelines with **Github Actions, Azure Pipelines, and Python**
- Prevented costly company breaches by discovering and patching **15+** severe vulnerabilities in critical systems by introducing fuzzing, sanitizers, and **Clang** static analysis
- Produced webinar of platform integration with platform's highest impressions (>30K) on LinkedIn. Wrote marketing webpages, [tutorials](#), and [blog posts](#)

ITS

December 2016—May 2019

Security Team Student Developer

Storrs, CT

- Improved security issue resolution time by 10% by building [an SVG network diagramming toolset](#) in **Python** to automate network auditing using SNMP, CDP, and CISCO router shell
- Designed a progressive migration strategy and migrated a **PHP, Python2-XMLRPC, and jQuery** web stack to **Python3** and **Vue.js**
- Maintained **99%** up-time RHEL **Linux** and **PostgreSQL** clusters

Education

UNIVERSITY OF CONNECTICUT, Storrs, CT

Bachelor of Science, Computer Science and Engineering

Notable open source contributions

- lint-staged msys2/cygwin platform support
- typescript-eslint bug in return-await lint rule
- Godot game engine bug in initial C# object marshalling
- onivim2 command palette autocomplete bug in vim-like editor