

# Michael Belousov

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## Technical Skills

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

Backend: PostgreSQL, MongoDB, SQLite, Linux, Node.js, Azure Service Fabric+Storage, nginx

Frontend: React, Vue, Vite, Webpack, GraphQL, CSS, Redux, Electron, Playwright, Web security

Tools: Git, GNU/Linux, GitHub Actions, Azure Pipelines, GDB, libAFL, libfuzzer, Valgrind, Docker

## Professional Experience

### BENTLEY SYSTEMS

May 2018—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 service for transforming data in the iTwin Platform, leveraging **TypeScript**, **Node.js**, and **C++**
- Implemented **5-10x speed** improvement of Transformation API through profiling and eliminating IO bottlenecks, after taking over service ownership
- Built several customer-facing full-stack applications with **Node.js**, **C++**, **React**, **ASP.NET**, **MongoDB**, **Azure Service Fabric** and **Cloud-Backed SQLite**
- Maintained dozens of CI/CD pipelines across **Github Actions** and **Azure Pipelines**
- Introduced fuzzing, sanitizers, and **Clang** static analysis to native buildology, patching dozens of severe security holes
- 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

- Wrote [an SVG network diagramming toolset](#) in **Python** that uses SNMP, CDP scanning, and a custom CISCO router shell parser
- Migrated a **PHP**, **Python2-XMLRPC**, and **jQuery** web stack to **Python3** and **Vue.js**
- Administered multiple RHEL **Linux** and **PostgreSQL** server clusters

## Education

UNIVERSITY OF CONNECTICUT, Storrs, CT

*Bachelor of Science*, Computer Science and Engineering