

William M. Temple II

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EXPERIENCE

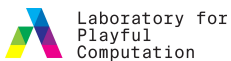


Software Development Engineer II (September 2019–present)

- Developer and API designer on the Azure SDK for JavaScript team
 - Designed and implemented modern and consistent API design guidelines for Azure SDKs
 - Developed and contributed deep knowledge of TypeScript/JavaScript best practices for API design
 - Subject expert in standards-based topics (for example, Unicode text handling)
 - Maintained the SDK packages for Azure Text Analytics and Azure Form Recognizer as code-owner
 - Spearheaded effort to improve documentation and sample code quality across the SDK

Software Engineering Intern (May 2017–August 2017)

- Created internal tooling for the Bing Rich Ads division to locate errors in ad data
- Developed a web system to interactively query a petabyte-scale database



Development Lead and Researcher, *University of Colorado Boulder* (August 2017–May 2019)

- Responsible for design, architecture, and technical direction of BlockyTalky 3
 - Developed a complex full-stack system for young students (middle school) to program a Raspberry Pi, including a blocks-based editor, runtime, and instrumentation software using TypeScript
 - Conducted qualitative research on the project's usability
 - Leveraged existing open-source technology to rapidly deliver field-testable prototypes
- Managed a team of two other developers as project lead
- Implemented and administered laboratory deployment systems



Software Engineering Intern (May 2016–August 2016; May 2017–August 2017)

- Atomic/OpenShift container security team
- Developed utilities for managing Docker containers in highly-available cloud environments
- Created tools for managing OCI container images in OpenShift with a focus on security

SKILLS

Languages

- **TypeScript/JavaScript**
- **Rust**
- C/C++
- Go

Advanced Skills

- **Web & HTTP (full-stack)**
- **Compilers & Runtimes**
- Cryptography & Authentication
- User-Centered API Design

Technologies

- **React**
- **Kubernetes & OpenShift**
- OpenID Connect
- Cloud/PaaS

Methods & Concepts

- Functional Programming
- Agile, Scrum, Kanban
- Data-driven design
- Git/GitHub Collaboration

EDUCATION



Worcester Polytechnic Institute; Worcester, MA

B.Sc. with High Distinction (3.8 GPA), Computer Science, May 2017
Activities and Honors: President, UPE (computing honor society); Senior Assistant Award (2017)



University of Colorado Boulder; Boulder, CO

Incomplete PhD (on leave), 3.5 GPA, Computer Science
22 credit-hours of graduate coursework and doctors-level independent study

PROJECTS

Azure SDK for JavaScript, Microsoft, *January 2018*

Client libraries for interacting with Azure services in Node.js and browsers, implemented in TypeScript, designed using data and research.

Serendipity, *Summer 2019*

A unique hybrid programming language, compiler, runtime, and visual editor, built from the ground-up using React.js and TypeScript.