# ALEX FRIEDRICHSEN

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## EDUCATION

University of St. Thomas
**B.A. Economics, B.A. Political Science**                                                 **2009-2013**
*Minor in Justice and Peace Studies*

## WORK EXPERIENCE

**Senior Software Engineer**

*CogReps, Inc. – SMASH Routes*                                                              **2018-2019**

- Designed and maintained full-stack code utilized by mobile game clients.
- Maintained and improved associated application frontend user portals (React.js).
- Designed and maintained new application microservices written in TypeScript/JavaScript and Golang
- Implemented robust testing frameworks and procedures
- Maintained documentation and coding standards used by entry-level staff

**Information Security Specialist IV, Officer**

*U.S. Bancorp, Inc. – Information Security Services*                                         **2013-2018**

- Designed and maintained an automated JavaScript reporting application for data sourced from several identity and access management tools. Rendered automated reports using React web app.
- Wrote and maintained custom .NET (C#) libraries used for integrating legacy applications into Office365/Azure infrastructure.
- Designed and maintained a "MERN" (MongoDB/Express/React.js/Node.js) solution for managing non-human application accounts for all Bank applications.

**Student Support Engineer**

*University of St. Thomas*                                                                   **2009-2013**

- Used SQL, SSIS and SSRS to create custom report packages to track loanable technology assets (laptops, projectors).
- Contributed to the design of a self-service Django web application for fetching reports on loanable technology assets.
- Maintained legacy JavaScript code used for tracking call-center support incidents.

## SKILLS

- 7 years' programming experience: Python (6 years), JavaScript ("Vanilla"/ES6+ JS- 7 years, Node.js – 7 years, TypeScript – 5 years), .NET(C# -  5 years), Golang (4 years), SQL (PostgreSQL and MySQL) and NoSQL (DynamoDB and MongoDB) (6 years)
- 7 years' experience engineering large scale, secure (hybrid) public cloud environments (Azure, AWS)
- 6 years' experience writing test cases for front and backend code.
- 5 years' experience with DevOps/CI infrastructure (Jenkins, Gradle, Terraform, Kubernetes).
- Experience working in both large enterprises and early start-ups