

# Sam Graham

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## PROFESSIONAL EXPERIENCE

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### Cloudbees, Inc, *BACKEND SOFTWARE ENGINEER*

2022 – present | Ann Arbor, MI

Cloudbees FM provides customers an enterprise feature flag management SaaS solution, including SDKs in all popular programming languages.

- Implemented and maintained the backend Express API, services, and data layer
- Regularly shipped code to implement new features and scale the API (config-as-code, integrations, etc)
- Regularly improved the existing code base (authorization, test suite, new tooling)

### Aria, *CO-CREATOR, SOFTWARE ENGINEER*

2021 | Boston, MA

Created Aria, an automated canary analysis deployment tool for AWS environments

- Wrote Node.js based API enabling deployment of CloudFormation stacks to existing VPCs
- Engineered custom deployment pipeline using Docker, CDK core, & SDK libraries
- Created Svelte SPA enabling deployments lifecycle management and observability

### General Motors Inc.

#### *SENIOR SYSTEMS ENGINEER*

2017 – 2021 | Warren, MI

- Tech Lead of 5+ safety engineer team, responsible for all product-line steering systems
- Created Flask based application to manage 70 person org workflow and work products
- Defined AV, Steer-by-Wire, & Fail Operational steering safety strategies

#### *STEERING SYSTEMS ENGINEER*

2014 – 2017 | Warren, MI

- Authored Hazard Analysis, Safety Concept, FTA, & STPA work products
- Ensured dFMEA alignment with Safety processes
- Defined safety requirements for AV and automated features

### Westinghouse Electric Company, *CONTROLS SOFTWARE ENGINEER*

2008 – 2013 | Cranberry, PA

- Designed control logic for nuclear power systems
- Coordinated design processes with Hw, Sw, and HMI groups
- Authored control algorithms (ANSI C) for fluid system processes

## PATENTS

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"Multi-stage voting control", US Patent No. US20180364712A1 - Date of Patent: Dec 8, 2018

## EDUCATION

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### M.S. Embedded Systems, *Oakland University*

2014 | Rochester, MI

### B.S. Electrical Engineering, *Michigan Technological University*

2007 | Houghton, MI, USA

## SKILLS

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**Languages** (TypeScript | Node, Go, Ansi C, SQL)

**Frameworks** (Express, React, Svelte)

**Database** (Postgres, MongoDB, SQLServer)

**Tooling** (Git, Docker, AWS CDK)