

# Prathik Murthy

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## EDUCATION

**University of Michigan - Ann Arbor**  
*Bachelor of Science in Computer Science*

Ann Arbor, MI

## WORK EXPERIENCE

### Procter and Gamble - Full Stack Software Engineer

June 2024 - Present

*TypeScript, NextJS, Python, Bash, SQL, Microsoft Azure, Terraform*

- Developed a suite of scripts in Shell and Python to automatically identify unused firewall rules, cutting inefficiencies and reducing total execution time over 10,000+ rules by over 90%
- Designed and implemented serverless functions in Azure for automatic detection of critical network infrastructure failures, reducing outage detection time by 99% to <5 minutes
- Led a team of 4 developers on an internal identity management platform, developing an internal REST API to expose LDAP directory information to organization developers

### Procter and Gamble - Software Engineering Intern

May 2023 - August 2023

*TypeScript, Python, SQL, Java, Microsoft Azure*

- Designed and developed a REST API to automatically execute Azure Machine Learning model predictions and display resultant values within ServiceNOW
- Leveraged Machine Learning predictions to reduce IT Change Request failure rates by 33%
- Hosted 8 Design Thinking sessions with various project stakeholders

### Steelcase - Web Development and Innovation Intern

May 2021 - April 2023

*TypeScript, React, SQL, Python*

- Developed a modular survey platform with NextJS and PostgreSQL with custom automated data aggregation and visualization tools
- Reduced time needed for survey data aggregation by 3 weeks per survey
- Collaborated with team engineers in AGILE sprints and daily sessions

## PROJECTS

### Documint

November 2023

*TypeScript, React, Python, AWS, Artificial Intelligence*

- Designed and developed a full stack web application to automatically generate documentation for GitHub repositories using AI
- Created for MHacks 16, ranked 1st overall in ML/AI of 304 participants

### BoothBuddy

January 2023

*TypeScript, NextJS, MySQL, Flutter, Dart*

- Developed a full-stack web application and an external Flutter mobile application to connect hosts and attendees at career/club fairs
- Created for Spartahack 8, ranked 2nd overall of 326 participants

### Tagr

June 2022

*TypeScript, NextJS, PostgreSQL, Microsoft Azure*

- Constructed a full stack web application to crowdsource data points for Machine Learning training sets
- Minimized existing time inefficiencies by reducing time needed to gather training data for prospective Machine Learning projects by 200 hours per project
- Collected over 4000 unique data points in 4 days of service uptime

## TECHNICAL SKILLS

- **Languages:** JavaScript / TypeScript, C++, Python, Java, SQL, C, HCL, Bash
- **Technologies:** React, Unity, AWS, Microsoft Azure, Infrastructure as Code