

# SAFFAT HASAN

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## EDUCATION

### Drexel University

B.S./M.S. in Computer Science — GPA: 3.66

Philadelphia, PA

Graduation: March 2021

## EXPERIENCE

### Google - Software Engineer

December 2021 - Present

New York, NY

- Automated customer onboarding to instrumentation tooling using CLI to meet 48 hour SLO
- Leveraged Go, Java

### Cigna - Software Engineer

Apr 2020 - November 2021

Philadelphia, PA

- Developed incremental deployment strategies to drive service mesh adoption using Gloo
- Refactored Jenkins library to use K8s native pipeline (Tekton) for efficiency, speed, & scalability
- Delivered authentication GRPC Service conforming to Envoy's extauthz interface to encapsulate custom auth logic
- Wrote presigned URL generator Lambda emphasizing JSON Schema for contract validation
- Lead intern team of 8 using TDD and automated deployment/management patterns with GitOps/ArgoCD
- Leveraged Go, Kubernetes, EKS, AWS Lambda, OpenShift, Gitlab CI, Tekton CI, ArgoCD

### Lockheed Martin - Software Engineering Coop

Apr - Sept 2019

Moorsetown, NJ

- Transitioned computer program into Git from Clearcase including training and best practices
- Incorporated automated testing using Google Test, JUnit, and Maven framework through feature toggles
- Sped up build time 40% by decomposing product through discussions about architecture with project leads
- Integrated build into Jenkins pipeline to automate deployment, SCA, and testing on every deliverable
- Leveraged Maven, Git, Jenkins, JUnit, Google Test, Java, C++

### MicroOffice - Software Developer

Feb 2017 - Jan 2019

New York, NY

- Built contract licensing and management system using PostgreSQL, Python, Flask, and Jinja
- Integrated external desk management system with existing operations interface using web API calls
- Updated payment portal to allow customers to make purchases independent of sales team
- Automated operations visual reporting service to provide useful at-a-glance business metrics
- Leveraged Full Stack Web development, Python, JavaScript, Git, PostgreSQL, Flask

## PROJECTS

### This Resume

Sept 2020 - Present

- Automatically deploy main branch to multiple targets ssh-deploy and gh-pages-deploy
- Decouple data from style enabling multi-format generation using single YAML source
- Generate PDF using LaTeX wrapped in Docker and Python templating engine
- Utilized Python, LaTeX, Docker, Gitlab CI, Github Action

### Film Rating Microservice POC

June - Aug 2020

- Architected simple yet highly decoupled IMDB clone with independently deployable services
- Created web and client service consumers with centralized authorization pattern
- Utilized Flutter, GraphQL, Node.js, MongoDB, Docker Compose, JWT Authentication

### King Me

Jan - June 2019

- Designed online checkers game using Flask SocketIO to allow players to create and join games
- Coordinated student team of four by creating mocked interfaces to enable concurrent development
- Emphasized portability by utilizing Docker to standardize runtime environment
- Enforced quality through use of Gitlab CI to automate static code analysis and testing
- Utilized Gitlab CI, Docker, Flask SocketIO, Jinja, Pytest, Pylint, JSHint

## TECHNICAL SKILLS

**Proficient:** Java, Python, Go, Unix, Git, SQL, JavaScript, Maven, Tekton, Flask, HTML/CSS

**Familiar:** C++, C, Docker, LXC, SaltStack, Jenkins, Node.js