

# Saurav K. Ghosal

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## Education

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**Georgia Institute of Technology, Honors Student | Atlanta, GA**

*Expected Graduation December 2022*

Bachelor of Science in Computer Science: Intelligence & People threads, GPA 4.0

## Skills

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**Programming Languages:** Java, JavaScript, Python, C/C++, SQL

**Technologies/Tools:** NextJS, Vue, Python Flask, Node, Spring Boot, Apache, AWS Lambda, ElasticSearch, MySQL

**DevOps:** Kubernetes, Docker, Git, Bitbucket, Selenium, Jest, Enzyme

**Relevant Coursework:** Data Structures, Algorithms, Linear Algebra, Object-Oriented Programming

## Work Experience

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**Urjanet Engineering Team**

*January 2022 - Current*

**Software Engineering Intern**

- Collaborating with other developers in Scrum meetings on a bi-weekly sprint cycle
- Completed Jira tasks that addressed critical bugs in Angular frontend and Spring boot microservice backend
- Designing the software architecture to optimize job scheduling logic with an in memory Java cache

**GMTM Sports Internship**

*October 2020 - May 2021*

**Software Developer Intern**

- Developed an interactive analytics dashboard with ChartJS and React to track company KPIs and performance
- Designed and developed customer-facing user analytics dashboard, now the platform's second-most visited page

**VMware NTICS (NSX Threat Intelligence Cloud Services) Team**

*May 2021 - August 2021*

**Product Development Intern**

- Worked with PMs to develop the foundation for a customer-facing portal allowing over 10,000+ NSX clients to research threats that appear on NSX Manager
- Built RESTful APIs through AWS API Gateway to query threat feed data stored in ElasticSearch
- Demoed NTICS portal API endpoints and presented Kibana IDS threat bundle visualizations to 20+ employees

**VMware NSBU IDPS (Intrusion Detection and Prevention System) Team**

*May 2020 – August 2020*

**Product Development Intern**

- Developed a file forensics solution for VMware IDPS to intercept files transferred over NSX, extending upon existing signature-based approach with support for file carving
- Updated Java Spring REST APIs and configs, added to protobuf, and built upon C++ codebase to generate rules for file extraction used by Suricata threat detection engine

## Relevant Projects

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**Bits of Good National NonProfit Portal Project**

*June 2021 – December 2021*

**Front-end Developer**

- Built a web app with NextJS and MongoDB to facilitate communication between Hack4Impact chapters and nonprofits
- Developed views with ChakraUI for project tracking, landing, and maintenance pages based on Figma mockups
- Worked on Github tasks with other developers on a bi-weekly sprint cycle, mentoring newer BoG developers

**VMware D&I Hub Web App (1st place winner at VMware Borathon)**

*August 2020*

**Full Stack Developer**

- Developed a web solution to promote transparency of VMware's progress towards its diversity & inclusion goals
- Contributed to React front-end displaying data visualizations and implemented user auth with JWTs in Node/Express
- Discussed with CFO, Zane Rowe, methods to integrate solution into VMware's current D&I initiatives
- Presented solution in a Tech Talk to an audience of over 40 VMware employees