Saurav K. Ghosal

sghosal9@gatech.edu | 321-961-1054 | https://www.linkedin.com/in/saurav-ghosal/

Education

Georgia Institute of Technology, Honors Student | Atlanta, GA *Expected Graduation December 2022*
Bachelor of Science in Computer Science: Intelligence & People threads, GPA 4.0

Holy Trinity Episcopal Academy | Melbourne, FL *Graduation May 2018*
Awarded STEAM diploma for excellence in Science, Technology, Engineering, Art, and Math classes, GPA 4.86

Skills

Programming Languages: Java, JavaScript, Python, C/C++
Technologies/Tools: NextJS, Vue, Python Flask, Node, Apache, Maven, Java Spring, AWS Lambda, ElasticSearch
Relevant Coursework: Data Structures, Algorithms, Linear Algebra, Object-Oriented Programming

Work Experience

VMware NTICS (NSX Threat Intelligence Cloud Services) Team *May 2021 - August 2021*
Product Development Intern
- Developed the groundwork for customer-facing portal that allows NSX clients to research IDPS threat feeds
- Deployed AWS Lambda functions in Java and Python and created REST API endpoints through AWS API Gateway
- Utilized ElasticSearch as a data storage mechanism to index and query threat feed data from LastLine provider
- Presented IDPS threat bundle visualizations on Kibana to the larger business unit of 20+ employees

GMTM Sports Internship *October 2020 - May 2021*
Software Developer Intern
- Developed an interactive analytics dashboard using ChartJS and NextJS to track company KPIs and performance
- Designed and developed customer-facing analytics dashboard, now the platform's second-most trafficked page
- Addressed server and client-side bugs from TrackJS and from user sessions on FullStory

VMware NSBU IDPS (Intrusion Detection and Prevention System) Team *May 2020 – August 2020*
Product Development Intern
- Developed a file forensics solution for VMware NSX IDPS to intercept files transferred over NSX
- Extended upon existing IDPS signature-based approach to support rules for file carving
- Updated Java Spring REST APIs, added to protobuf, and extended upon C++ codebase

Relevant Projects

Bits of Good National NonProfit Portal Project *June 2021 – December 2021*
Front-end Developer
- Built a web app using ChakraUI/NextJS to facilitate communication between Hack4Impact chapters and nonprofits
- Developed views for non-profit project tracking, landing, and project maintenance pages
- Teamed up with other developers to work on tasks on a bi-weekly Agile sprint cycle

VMaware 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
- Built web app with React frontend and Node/Express backend for user authentication
- Discussed methods to integrate solution into VMware's current D&I framework with CFO, Zane Rowe
- Presented solution in a Tech Talk to an audience of 40+ VMware employees

Extracurricular Activities

Part-Time Paid Tutor at Georgia Tech's Center for Academic Success *August 2019 – May 2020*
- Reviewed topics in Linear Algebra, Object-Oriented Programming, Physics, and Data Structures and Algorithms
- Communicate complex topics through active learning techniques with whiteboard