

# Aman Binod Singh

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## EDUCATION

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### Master of Science in Cybersecurity

Stevens Institute of Technology, Hoboken, NJ

Aug 2023 - May 2025

**GPA: 3.74/4**

### Bachelor of Engineering in Computer Science

MIT College of Engineering, Pune, India

June 2016 - June 2020

**GPA: 3.2/4**

## SKILLS

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- **Languages:** Java, C, C++, C#, Python, SQL, Lua
- **Scripting Languages:** JavaScript, Bash Script, Shell Script, PHP
- **Frameworks:** Django, Spring Framework, .NET Framework, Angular
- **Databases:** MySQL, Oracle, PostgreSQL, MongoDB
- **Tools and Technologies:** Control-M, Docker, IBM WTX, Wireshark, Postman, Nessus Vulnerability Scanner, CI/CD, Git, Kubernetes, Jenkins, Ansible, Jira

## PROFESSIONAL EXPERIENCE

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### Consultant - CyberSecurity, Larsen & Toubro Infotech, Pune, India

Nov 2020 - Nov 2022

#### GPS Classic Payments Team, HSBC

- Engineered and rigorously tested WTX maps to securely process payment file conversions, ensuring data integrity and compliance with the **GPS payment processing engine** protocols, leveraging **IBM WTX** technology.
- Took ownership of RuleEditor application, overseeing health checks, OS updates, business operation support, and leading **Apache Log4j** vulnerability mitigation; utilized **Nessus vulnerability scanner** for continuous vulnerability monitoring
- Automated scheduling and file processing with **Control-M** across testing and production environments, reducing file processing time by **40%**; concurrently developed **Shell Scripts** optimizing job execution
- Migrated the deployment infrastructure for WTX maps from HSBC's legacy G3 tool to **Ansible**, fortifying the system's reliability and reducing potential configuration vulnerabilities. Improved deployment consistency across all environments, cutting deployment time by **30%** and enhancing system stability by **20%**.

### Trainee, L&T Electrical & Automation, Mumbai, India

Jun 2019 - Jul 2019

- Collaborated with senior team members to comprehend and deploy various security protocols for in-house data center, showcasing rapid learning abilities and adaptability to evolving tasks
- Gained hands-on experience with Active Directory, VMWare, Firewall, McAfee Antivirus, and EMC Networker systems

## PROJECTS

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### Social Media Intelligence — PostgreSQL, SVM, Django Framework

Aug 2019 - Feb 2020

- Led a team of four, in collecting 6-months of data from YouTube, Twitter, and Google Trends, extracting daily trends and using 4-month dataset as training for model development, remaining for accuracy assessment
- Utilized **web scraping** and APIs to efficiently extract and store data Twitter, YouTube, and Google Trends in multi-level **PostgreSQL database**
- Collaboratively developed a system by employing **Support Vector Machine (SVM)** model to predict social media trend and it's duration, driving a **70%** boost in user engagement by assisting in content creation based on predicted trends
- Engineered an interactive dashboard leveraging **Django framework**, enabling users to access and visualize predictive trends, current social media analytics, and historical statistical analyses of previous predictions

### Ride Eazzy - Android Application — Android Studio, Firebase Database

Sep 2018 - Nov 2018

- Designed a smart bus ticketing application for efficient ticket generation and payment in intra-city bus transit system
- Implemented real-time ticket generation and validation system using **QR code technology**, ensuring fast and reliable ticket processing
- Made use of **Android Studio** and **Firebase Database** technologies for seamless development and data management

## CERTIFICATIONS

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- Microsoft Azure Fundamentals - AZ 900