Pratham Gupta

Brooklyn, New York | 929-461-9230 | pratham.gupta@nyu.edu | Linkedin/PrathamGuptaaa | Github/PrathamGupta

PROFESSIONAL SUMMARY

Cybersecurity Specialist and Software Developer, driven and detail-oriented with a solid foundation in cybersecurity & computer science. Combination of rigorous academic training, robust technical skills, and practical industry experience positions me as a dynamic contributor to the cybersecurity and software development fields. Work has been characterized by a dedication to efficiency, security, and innovation.

EDUCATION

New York University	**MS in Cybersecurity**	GPA : 4.00	*August 2023 – May 2024*
IIIT Delhi	**BTech in Computer Science and Engineering**	GPA : 3.5	*August 2018 – May 2022*

RELEVANT COURSEWORK

- Cryptography
- Network Security
- Penetration Testing
- Software Supply Chain
- Machine Learning
- Data Structures
- Algorithms Analysis
- Computer Architecture

TECHNICAL SKILLS

Languages : C/C++, Python, Java, GoLang, Javascript, HTML+CSS, SQL, JavaScript, HTML, XML, JSON, CSS
Frameworks : Node.js, Flask, Django, ExpressJS, Bootstrap
Security and API Tools : Linux (Configuring and Managing), Git, Docker, Kubernetes, SQL Server, Postman, Kali, Metasploitable, Wireshark, Jenkins, GitHub, JUnit, WordPress
Others : Agile (Scrum/Kanban), OWASP, Debugging, Root Cause Analysis

EXPERIENCE

Software Developer | *PayTM (India's Biggest Digital Finance Company)*   *June 2022 –August 2023*
- Mitigated potential loss of ₹30 million by swiftly implementing new government guidelines for 3D secure payments through Multi-Platform Gateway Systems. Finished the whole development process with strict and fast deadlines.
- Code used by most of the MPGS payment transactions following 3DS 2.0 policy (As of Jul 2023).
- Increased transaction efficiency by 50%, optimizing wrapper flow on multiple cards for acquirers like MasterCard, VISA, and American Express
- Fixed a bug of the token-based payment methods, reducing fraud from credit/debit cards and digital wallets. Helped in fixing the issues without loss of business.
- Developer in the Affordability Transactional team for Paytm Payments. Using various technologies such as Kafka, Sharding spheres, Spring boot and DTO's for this project.

Research Intern | *AmpViv Healthcare*   *September 2020 – March 2021*
- Conducted Semantic Segmentation on fully and partially labeled datasets, facilitating identification and network-based labeling.
- Investigated HDR algorithms for dataset accuracy through grid search.
- Identified Digital Image Processing techniques to improve results for unlabeled datasets.
- Read and Compiled multiple research papers for Image Processing on Semantic Segmentation.
- Learnt about supervised and unsupervised segmentation in image processing.

PROJECTS

LintAid: Seamless Linter Integration | *Python, Npm, CLI, OpenSSF, OWASP*   *Spring 2024*
- CLI tool that seamlessly integrates linters into existing projects for various programming languages.
- Contributed to improving code quality, security, and performance by facilitating the adoption of linters.
- Addressed common developer concerns regarding linting, such as the tedious setup process.

OpenTelemetry Security Assessment | *Git, OpenSSF, OWASP, Threat Modelling*   *Fall 2023*
- Crafted a security assessment for the OpenSSF project of OpenTelemetry.
- Conducted Threat Modelling for security risks and overall security model for the project.
- Analysed the project needs and deliverables to provide insights about the company from a security perspective.
- Assessment is reviewed and merged in the official repository of the OpenSSF projects.

DESy: Decentralized Education System | *Hyperledger Fabric, Node.js, Rest.js, GoLang, Python*   *May 2022*
- Blockchain implemented education system, which makes students in control of their studies.
- Executed a Government of India project to implement New Education Policies.
- Established a blockchain consortium of universities, empowering students to select their preferred university and courses.

AWARDS AND CERTIFICATIONS

VIVID CTF	*National Centers of Academic Excellence in Cybersecurity (NCAE-C)*	*Spring 2024*
Jersey CTF	*New Jersey Institute of Technology*	*Spring 2024*
Cybersecurity & IoT	*University System of Georgia (online)*	*May 2020*
Machine Learning	*Stanford University (online)*	*June 2020*
Dean's List Award	*IIIT Delhi*	*August 2020*
All India Ranking	*Top 1% out of 1.2 million students*	*June 2018*