

# Anmol Pal

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## EDUCATION

**Binghamton University, State University of New York, Thomas J. Watson College of Engineering and Applied Science**

*Master of Science Computer Science*

Expected May 2024

Coursework: Algorithms, Programming Languages, Database Systems, Operating Systems, Programming for Web

**Cumulative GPA:** 3.88/4.0

**Rajiv Gandhi Prodyogiki Vishwavidhyalaya, Medi-Caps Institute of Science and Technology Indore, India**

*Bachelor of Engineering in Computer Science and Engineering*

Aug 2015 – May 2019

**Cumulative GPA:** 7.34/10.0

## TECHNICAL SKILLS

**Languages:** Java, Bash, Groovy, C, C++, Python

**Software & Frameworks:** Netflix Zuul, OpenAM, OpenDJ, Apache Httpd, Java Spring Boot, Swagger, Spark, Pandas, Matplotlib, Seaborn, Javascript, Node JS, React

**Databases:** MongoDB, MySQL, NoSQL Apache Derby, Amazon DynamoDB, Amazon S3,

**Tools:** Docker, Kubernetes, Helm, Ansible, Terraform, Jenkins, Git, Appdynamics, Splunk, Datadog, AWS, Amazon EKS, GCP, GKE

## PROFESSIONAL EXPERIENCE

**Senior Software Engineer HSBC - WPB (DevOps) | Pune, India**

Mar 2022 - Jul 2022

- Led the cloud migration of Private Banking's tier 1 critical product DSP from strategizing & designing multiple bank-approved cloud architectural patterns accounting for data security and compliance
- Deployed Secret Management using AWS Secret Manager and established Log Retention solutions to ensure compliance and enhance product capabilities
- Implemented Blue-Green Deployment patterns using envoy proxy to provide **0** downtime releases
- Developed CloudFront distribution solution for UK PoP moving away from On-premise

**Software Engineer HSBC - WPB (DevOps) | Pune, India**

Jul 2019 - Mar 2022

- Containerization of applications deployed on-premise, created a local dev environment of DSP for several HSBC in-house and vendor components eliminating infrastructure cost overhead of **25%**
- Setup CI-CD using Jenkins and an underlying groovy framework for application components of DSP on Amazon EKS, integrated with code scanning tools for dependency vulnerability & test coverage
- Built environments for Integration Testing, User Acceptance Testing, and Production on Amazon EKS for multiple PoPs
- Installed Appdynamics Machine & Application Agents to enable monitoring over an Infrastructure of **200+** VMs and configured multiple applications by integrating monitoring in the CI-CD process.
- Created health dashboards & Setup alerting enabling proactive monitoring & reducing incidents by **40%**

## ACADEMIC PROJECT EXPERIENCE

**Online Compiler | Binghamton, USA** [Git](#)

May 2023

- Created an online compiler with **React** front end, **Spring Boot** backend, deployed each microservice on Google Kubernetes Engine
- SaaS application allows users to compile & execute code for multiple languages eliminating any environment set up
- Used **Google Bucket** to store and display files of previously executed code

**Log File Analysis | Binghamton, USA** [Git](#)

Nov 2022

- Analyzed Apache Web Server logs of an application as NoSQL data to derive Application Performance Metrics & business insights, performed data cleaning, wrangling, transformation & Visualization of data to get insights & trends
- Performed load analysis on the website, and observed performance of the application at peak hours suggesting infrastructure scale up and down during predicted peak hours using **PySpark** and **Seaborn** visualization libraries

**Lab Monitoring System | Indore, INDIA**

Jan 2019

- Desktop application that monitors students in school/college labs connected over the same network
- The application uses the **Java RMI** mechanism to monitor machines where each client is sending screenshots to the server (admin). Objects were compressed and decompressed for faster delivery

**E-Asset Management System | Indore, INDIA**

Jan 2018

- 3 Tier web application to allocate & keep track of several assets like laptops, chargers, monitors, headsets, using **Spring Boot** and **JSP**

## ACHIEVEMENTS AND AWARDS

- Achievements: HSBC GPB Pat on the back(Q1 2021, Q2 2020), HSBC Circle of Excellence (Q4 2021), HSBC Global Private Banking Cricket League - Woman of the Match
- Secure Code Warrior: Yellow Belt - Java, White Belt - Docker, Ansible, Terraform
- **Code to Enhance Learning:** Conducted webinars and programming workshops for underprivileged children