

Pratham M

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EXPERIENCE

Trivium eSolution Pvt Ltd

Associate Software Engineer

Bengaluru, Karnataka

October 2025 – Present

- Project with React, .net, used styled component for css. Developed a badge component with filter for storybook. Worked with D3 Charts with precise tooltips when we hover on it.

Trainee July 2025 – September 2025

- Model Context Protocol**- Implemented an advanced personal automation system using Claude Desktop with a custom Model Context Protocol (MCP) to securely connect **Gmail, GitHub, and Fi app services**. Automated email workflows, enabled Claude to understand and modify GitHub repositories via natural language, and fetched real-time personal finance data for analysis. This streamlined tasks and demonstrated strong skills in AI-driven automation, API integrations, and secure config management.

Intern

January 2025 – June 2025

- Developed **AI Security and Vulnerability Awareness Tool** that processes penetration test reports (PDF) and extracts CVSS scores, CWE IDs, CVE IDs, severity levels, and issues in structured columns, reducing manual analysis time by 80%. Implemented using **OpenAI API and Ollama** for local deployment.
- Built **full-stack** E-Commerce application with Angular frontend, Spring Boot backend, MySQL database with Hibernate ORM, and **Kafka message broker** for order assignment to delivery personnel. Integrated **SMTP OTP** authentication for secure login.
- Implemented comprehensive **admin dashboard** with **inventory management, admin module addition, and data visualization features** for business insights and operational efficiency.
- Implemented **DevSecOps** CI/CD pipeline using **Jenkins**, integrated **SonarQube** for code quality analysis, and implemented monitoring stack with **Prometheus** for logging and **Grafana** for visualization and performance monitoring, **Dockerized** whole project.

EDUCATION

CHRIST (Deemed to be University)

Master of Computer Applications, 68.61%

Bengaluru, Karnataka

July 2023 – April 2025

St. Joseph's College (Autonomous)

Bachelor of Science (Computer Science, Mathematics, Electronics), 70.35%

Bengaluru, Karnataka

August 2020 – May 2023

Jnanodaya Pre University College

2nd PU (PCME), 79%

Bengaluru, Karnataka

2018 – 2020

TECHNICAL SKILLS

Programming Languages: Python, R, Java, C, Golang, HTML, CSS, JavaScript, Spring Boot, Angular, React

Tools and Platforms: GitHub, Git, MySQL, Firebase, Tableau, Google Cloud Console (APIs), AWS, Azure

Mobile App Development: Kotlin, Java, XML

DevOps & Cloud: Jenkins, Docker, Prometheus, Grafana, SonarQube, AWS EC2, IAM

Design & Content Creation: Canva, Video Editing, Infographic Design, Medium Blog Writing

PROJECTS

Data Analytics Projects

- Performed real-time sentiment and topic analysis on 11,000+ Namma Yatri app reviews using LDA, K-Means, and TF-IDF for theme extraction. Leveraged SVM, Random Forest, and Neural Networks for sentiment classification, validating results with VADER, TextBlob, and LDA Coherence Model. **View Medium Article**

Android App Development

- CHRIST Visitor App:** Developed for monitoring entries and exits, maintaining records, and facilitating communication between security and departments. Features automated QR generation and email notifications.

Cloud Computing

- AWS Implementation:** Launched EC2 instances, implemented load balancers, deployed static web pages, and demonstrated IAM service with practical use cases. Verified deployments by running Python applications.

RESEARCH PAPERS & EDUCATIONAL INTERNSHIPS

Research Paper: "Data Security in Cloud Computing" (*March 2024*)

- Conducted comprehensive research on data security challenges in cloud computing for critical applications. **View Paper**

Educational Internships

- **SwipeGen Technologies:** Specialized in Computer Vision using Microsoft Azure cloud platform, exploring 3 AI-based solutions for cloud-based computer vision applications.
- **Run Shaw Technologies:** Implemented Machine Learning algorithms and models for processing and analyzing datasets containing 5,000+ records with comprehensive data preprocessing and model optimization.

CERTIFICATIONS

Completed Machine Learning Course, AWS Academy Cloud Foundations, and Web Design certification programs.

Certified for outstanding participation and presentation in Android App Development workshop at CHRIST University.

Completed the "DevOps Project 1 - CI/CD with Git, Jenkins, Ansible, Kubernetes" course on Udemy