

Pranav Prasanna Ghorpade

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Professional Profile

Junior Java Developer with 1.5+ years professional experience building scalable REST APIs at Red Fibre using Spring Boot and MySQL. MSc Cybersecurity (NCI Dublin, 2:1) with CEH Master certification and cybersecurity internship at SecurePoint Solutions. Proven experience in full software development lifecycle, unit testing with JUnit, code reviews, and Git workflows. Strong problem-solving and analytical thinking skills with attention to detail. Open source contributor to TheAlgorithms/Java (59,000+ stars). Authorized to work in Ireland (Stamp 1G).

Professional Experience

Retail Associate | Tesco, Dublin, Ireland

2024 – Present

- Deliver excellent customer service and resolve queries efficiently in high-volume retail environment
- Handle cash transactions and POS operations accurately demonstrating reliability and attention to detail
- Collaborate effectively with team members in fast-paced environment while maintaining professional composure

Back End Developer | Red Fibre, India

Apr 2022 – Aug 2023

- Developed and maintained RESTful APIs using Java Spring Boot, serving 10,000+ daily requests with 99.9% uptime
- Implemented unit tests with JUnit and Mockito, achieving 85% code coverage and reducing production bugs by 40%
- Optimized database queries in MySQL, improving API response times by 35% through indexing and query refactoring
- Collaborated with frontend team to design and document API contracts using Swagger/OpenAPI specifications
- Participated in Agile ceremonies including daily standups, sprint planning, and retrospectives
- Conducted code reviews focusing on SOLID principles, clean code practices, and security best practices
- Containerized microservices using Docker, reducing deployment time by 60%
- Integrated CI/CD pipelines using Jenkins and GitHub Actions for automated testing and deployment

Cybersecurity Intern | SecurePoint Solutions, Pune, India

Jan 2022 – Mar 2022

- Conducted vulnerability assessments on web applications using OWASP methodology and Burp Suite
- Performed penetration testing on network infrastructure identifying 15+ security vulnerabilities
- Documented security findings and remediation recommendations in detailed technical reports
- Assisted senior analysts in security audits and compliance assessments
- Gained hands-on experience with Kali Linux, Nmap, Metasploit, and Wireshark
- Participated in security awareness training sessions for client employees

Education

Masters of Science in Cybersecurity | National College of Ireland, Dublin

Sep 2023 – Sep 2024

Grade: 2:1

- Modules: Network Security, Secure Coding, Cloud Security, Risk Management
- Thesis: FogSec - Secure fault-tolerant cloud storage with AES encryption and regenerating codes

Bachelors of Science in Computer Engineering | Savitribai Phule Pune University, India

2018 – 2022

Grade: CGPA 8.11/10 (First Class)

- Final Year Project: Backend for encrypted file sharing with role-based authentication

Certifications

CEH Master v12	EC-Council	CEH Practical v12	EC-Council
CEH v12	EC-Council	Core Java & JDBC	QSpider Training Institute
CompTIA Security+	<i>In Progress</i>		

Technical Skills

Languages	Core Java (Proficient), SQL, Python, C++ , PHP
Backend	Spring Boot, REST APIs, JDBC, JPA/Hibernate, MySQL, PostgreSQL
Testing	JUnit, Mockito, Postman
DevOps	Docker, Jenkins, GitHub Actions, Git
Security Tools	Kali Linux, Burp Suite, Wireshark, Nmap, Metasploit, OWASP ZAP
Other	Linux CLI, VS Code, Swagger, OWASP methodologies

Open Source Contribution

TheAlgorithms/Java Repository | 59,000+ Stars *January 2026*

- Successfully contributed PR #7245: Enhanced BinarySearch.java with comprehensive JavaDoc documentation
- Added detailed complexity analysis and practical examples, demonstrating Java proficiency and technical writing
- PR approved by maintainer with all CI checks passed, showcasing Git workflow and open source collaboration

Projects

AI-Powered CV Generator *Java 17, Spring Boot 3.2, Claude Sonnet 4 API, Thymeleaf, Maven*

- Full-stack MVC web application integrating Anthropic Claude AI to generate ATS-optimized, job-tailored CVs in LaTeX and PDF format with keyword extraction, match scoring, and skill-gap coaching
- Designed RESTful backend with 10+ endpoints supporting asynchronous generation, status polling, and file downloads with cleanly separated service-oriented architecture

FogSec - Secure Cloud Storage *Java, JSP/Servlets, AES Encryption, Regenerating Codes, MySQL*

- Distributed cloud storage system integrating fog computing nodes for low-latency edge processing and regenerating codes for fault-tolerant data recovery with minimal bandwidth overhead (MSc Thesis)
- Implemented AES cryptographic file protection with role-based access control for secure multi-user file management and fog node resource monitoring

Secure Web Application - OWASP Hardening *Node.js, Express.js, MongoDB, bcrypt, Helmet, Docker*

- Security-hardened web application demonstrating practical mitigation of OWASP Top 10 vulnerabilities including XSS, SQL injection, brute-force, and session hijacking
- Implemented multi-layered middleware pipeline with RBAC, bcrypt hashing, CSP/HSTS headers, rate limiting, audit logging, and optional Docker containerization

Secure & Fair Resource Allocation in Cloud *Java 17, JSP/Servlets, MariaDB, AES, Docker, GitHub Actions*

- Cloud resource management platform with AES file encryption, deduplication, file-splitting, and role-based admin/user dashboards for allocation request workflows
- Modernized legacy JSP/Servlet WAR application with Docker containerization and GitHub Actions CI/CD pipeline for automated build, test, and deployment