

Rajiv Panda

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SKILLS

PROGRAMMING

Python • C# • Bash
SQL • Java • C • C++

TECHNOLOGIES

.NET Core • Git • Vim • Linux server
REST APIs • Elasticsearch • MySQL
Maria DB • XUnit • JUnit

EDUCATION

SOUTHERN METHODIST UNI.

MS IN COMPUTER SCIENCE

May 2021 | Dallas, TX

UNIVERSITY OF MUMBAI

BE IN COMPUTER ENGINEERING

July 2017 | Mumbai, India

COURSEWORK

GRADUATE

Algorithm Engineering
Computer Security & Software Security
File Organisation & Database Management
Computer System Architecture
Operating Systems & Systems Software
Computer Networks
DevOps For Network Engineers

UNDERGRADUATE

Computer Networks
Operating Systems
Digital Logic design
Distributed Systems
Artificial Intelligence
Theoretical Computer Science
Object Oriented Programming
Data Structures & Algorithms
Cryptography & Systems security
Business Communication & Ethics
Mobile Communications & Computing
Software Engineering & Project Management
Systems Programming & Compiler Construction

EXTRAS

- 2015** Proctored for MSFT hackathon: Future Unleashed, Mumbai
- 2016** Represented MSP India at Microsoft Global summit, Seattle
- 2019** Helped organise University hackathon: HackSMU

EXPERIENCE

NOKIA INC. | SOFTWARE DEVELOPMENT & INTEGRATION ENGINEER

July 2021 – May 2024 | Dallas, TX

- Developed Python & Bash based automation script with a team of two engineers to rapidly test and deploy the internally built patch for Log4j RCE vulnerability across the **distributed system consisting of 450+ VMs**, eliminating manual SSH updates, presenting the solution to AT&T directors, and safeguarding their 4G subscriber database from potential breaches costing up to **\$9Million** per incident.
- Developed a **high-performance tool in C++** for the DNS team to scan, clean, and validate DNS records, leveraging parallel computing for faster processing; enabled at least **5x more frequent checks/day** and **10x faster issue detection** compared to existing solutions, enhancing DNS reliability
- Authored and delivered comprehensive maintenance and patch documentation (MOPs) to AT&T, collaborated with cross-functional teams to resolve critical issues in real-time, and conducted training sessions for AT&T's SREs, ensuring long-term site maintainability and independent troubleshooting.
- Investigated and resolved system alarms on subscriber-database-system by analyzing root causes, coordinating cross-team fixes, and developing patches in Python when feasible, successfully addressing **over a dozen unique issues** before the new solution's production launch.
- Built custom log processing tools in Python and Bash (using sed & awk), responding to AT&T directors' on-call requests for data extraction from the distributed subscriber database system, enabling non-technical staff to independently monitor critical system parameters without engineer intervention.

NEC SOFTWARE SOLUTIONS, INDIA | ASSOCIATE SOFTWARE ENGINEER

Sept 2017 – Aug 2018 | Mumbai, India

- Developed and integrated Power BI reports and dashboards into a .NET Core web app using C# for a travel agency client, enabling real-time, interactive data visualization with user-specific access controls, with enhanced analytics capabilities, which helped my team upsell the feature and generate additional project revenue.
- Wrote unit test cases for a Node.js-based web app's backend for [IETF](#) using JUnit, **achieving 90%+ test coverage** for the existing codebase and adding test cases for future sprint tasks to promote Test-Driven Development (TDD) within the team.
- Developed a fuzzy search algorithm using Elasticsearch and HTTP queries for a [talent recruiting web app](#) commissioned by bollywood actor Suniel Shetty, **improving candidate discovery rate by 30-50%** compared to the initial strict relational database search.

MICROSOFT | STUDENT PARTNER

June 2014 – April 2017 | Mumbai, India

- Developed and **launched a perpetual calendar app for Windows 10 Phone**, using C# and XAML in Visual Studio CE to algorithmically generate calendars without network or database dependencies, successfully deploying it on the Win10 Mobile App Store.
- Conducted Hour of Code sessions at various schools and colleges, mentoring students on C#, Visual Studio CE, and Azure, coaching them in Windows phone app development using event-driven programming, and proctoring Microsoft-hosted hackathons, contributing to technical evangelism and ranking among the **top 4 Student Partners in India in 2016**.