

# PRASHEEL NANDWANA

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## Education

### Arizona State University

Master of Science in Software Engineering (GPA: 4/4)

*Relevant Courses: Advanced Data Structures & Algorithms, Cloud Computing, Software Validation and Testing, Mobile Systems*

August 2023 - May 2025

Tempe, United States

### PES University

Bachelor of Engineering in Electronics and Communication Engineering

July 2016 - August 2020

Bangalore, India

## Professional Experience

### Arizona State University

Instruction Assistant

- As an Instruction Assistant for CSE 110, I teach Java programming labs and support students online. Additionally, I grade SER 322 Database Management System assignments and assist students with course materials.

May 2024 - Present

Tempe, Arizona

### Netmeds (Reliance Group)

Software Development Engineer

- Implemented a scalable **microservices** architecture using advanced **OOP Paradigms**, **Java-Spring Boot**, and **Angular** and **TypeScript** features to efficiently manage over 100k e-commerce orders per day.
- Developed robust **RESTful APIs** for **CRUD** operations, with rigorous unit testing with **JUnit 5** to ensure system reliability.
- Designed adaptable architectures for critical components using optimal **design patterns** impacting 100k+ customers.
- Incorporated a **BDD pipeline** leveraging **Cucumber** and **Java**, reducing manual effort by 99.46%, slashing time from 16 hours to 6 minutes.
- Enhanced **system security** by effectively managing and addressing security reports, successfully resolving a total of 19 individual security bugs.
- Led and mentored a team of 3 to write automated test cases, showcasing leadership and management skills.

December 2021 - July 2023

Chennai, India

### Synechron

Software Engineer

- Contributed to **migrating** a Legacy system to Java, demonstrating proficiency in navigating intricate processes and seamlessly transitioning between Cobol and Java.
- Crafted an intuitive web application for streamlined payroll processing, employing **Angular** and **Node.js** technologies to benefit 1000+ employees.
- Implemented a robust **CI/CD pipeline** to automate deployment processes using **Jenkins** on the **Azure cloud** platform.
- Well-versed with **agile** methodology, version control systems, customer interaction, and troubleshooting.

October 2020 - November 2021

Bangalore, India

## Relevant Projects

### GitHub Ideal Behaviours

- Crafted a Python-based system using FastAPI framework to automatically categorize developers by their Git contributions, resulting in over 60% reduction in managerial investigation time.
- Employed a robust MVC architecture with Pydantic models to optimize data handling and system structure, achieving a code coverage of 96% through Pytest unit testing

June 2024 - August 2024

### Elastic Face Recognition on AWS

- Designed a scalable facial recognition application using **FastAPI**, leveraging AWS web services like **EC2** and **S3** to handle the variable workloads.
- Orchestrated asynchronous communication between tiers via **Kafka**, efficiently processing up to 100 requests within 3 minutes.
- Developed a custom auto-scaling algorithm to dynamically adjust EC2 instances based on demand.

June 2024 - August 2024

### Care Chat

- Developed a full-stack real-time conversational chatbot with **React** (frontend), **Express-Node.js** (backend), and **MySQL** (database), integrating with **OpenAI LLM API**.
- Implemented **JWT token** authentication for secure login and data transactions and utilized Gmail **SMTP** for sending verification links, ensuring reliable conversation history storage in MySQL.

May 2024 - June 2024

### Apka Language

- Developed a new programming language "APKA" with **Prolog** (parser/evaluator) and **Python** (lexer), supporting imperative constructs and custom syntax. Implemented a grammar-based interpreter to execute APKA programs.
- Led a team effort in building an interpreter pipeline from lexer to evaluator, demonstrating strong collaboration and technical skills in software development.

January 2024 - May 2024

## Technical Skills

**Languages:** Java, C++, JavaScript, Python, SQL, HTML/CSS, TypeScript, Bash

**Databases:** Oracle, MySQL, SQL Server, PostgreSQL, MongoDB

**Libraries/Frameworks:** J2EE, Spring Boot, Angular, ReactJS, Vuejs, Nodejs, JUnit

**Tools/Applications:** Docker, Heroku, AWS, Git, SVN, Jenkins, VS Code, Android Studio, Vim, AWS EC2, Postman