PRASHEEL NANDWANA

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Education

Arizona State University **August 2023 - May 2025**
Master of Science in Software Engineering (GPA: 4/4) *Tempe, United States*
Relevant Courses: *Advanced Data Structures & Algorithms, Data Visualization, Software Validation and Testing, Mobile Systems*

PES University **July 2016 - August 2020**
Bachelor of Engineering in Electronics and Communication Engineering *Bangalore, India*

Technical Skills

Languages: Java, C++, JavaScript, Python, SQL, HTML/CSS, COBOL, TypeScript, Bash
Databases: Oracle, MySQL, SQL Server, PostgreSQL, OrientDB, MongoDB
Libraries/Frameworks: J2EE, Spring Boot, Angular, ReactJS, Bootstrap, Tensorflow, JUnit
Tools/Applications: Unity, Visual Studio, Docker, Git, SVN, Jenkins, VS Code, Android Studio, Vim, AWS EC2, Postman

Professional Experience

Netmeds (Reliance Group) **December 2021 - July 2023**
Full Stack Software Engineer *Chennai, India*
- Implemented a scalable **microservices** architecture using advanced **OOP Paradigms**, **Java-Spring Boot**, and **Angular** and **TypeScript** features to efficiently manage over 100k 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.

Synechron **October 2020 - November 2021**
Software Engineer *Bangalore, India*
- 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.

Relevant Projects

Care Chat **May 2024 - June 2024**
- 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.

APKA Language **January 2024 - May 2024**
- 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.

Effort Logger **August 2023 - November 2023**
- Led a team of 3 in creating a scalable effort logging system, enhancing statistical effort estimation for cost reduction.
- Implemented **Java** and **JavaFX** frameworks for authentication, registration, **encryption** and **decryption** of sensitive data, while designing a user-friendly interface for seamless navigation and interaction.

US Visa Slot Finder **June 2023 - July 2023**
- Created a monitoring script in **Java**, **Bash** and **Maven** to check checkvisaslots.com at a 1-minute polling rate, generating an alert upon detecting preferred visa slot availability.