

# Prasuna Podhigari

Full Stack / Java Developer

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## Professional Experience

**Full Stack Developer**, Nortek Consulting Inc.

01/2024–05/2024 | Texas, USA

- ♦ Worked under a team working on detection of buffer overflow vulnerability in **C/C++**, utilizing **Java** and **J2EE** for **backend** integration.
- ♦ Achieved a 40% improvement in code patterns summarization and vulnerability identification with **Agile** and **Scrum**.
- ♦ Designed and vectorized control flow patterns in **C/C++** using **Spring MVC** and **Hibernate**, implemented in **Python** with **PostgreSQL** for data storage.
- ♦ Implemented this scheme in python for vectorizing IR code of C/C++ programs to **2D tensors**.
- ♦ Trained **ML** models with 95% accuracy and **100%** recall, incorporating unit and integration testing with **JUnit**.
- ♦ Tutored Java to undergraduates, focusing on **React.js** for front-end and **DevOps** principles like **CI/CD pipelines**.

**Java Developer**, D Square

08/2021 – 12/2022 | Hyd, India

- ♦ Developed, Modified and Enhanced backend of an event driven **microservices** based app using **Java** and **Spring Boot**.
- ♦ Written and performed unit and integration testing of software ensuring data efficiency and security enhancement.
- ♦ Contributed to performance optimization of **RESTful APIs**, implementing API Key Management, **SSL**, **RBAC**, and **JWT**.
- ♦ Triaged and fixed some critical bugs in domain services, supporting scalability and transaction speed optimization.
- ♦ Participated in code review sessions to validate adherence to development standards, leveraging cloud deployments on **Azure** and **Kubernetes**. Integrated **GIS** solutions using **ArcGIS** for various applications.

**Data Research Analyst Intern**, ACE Study Overseas

04/2021–07/2021 | Delhi, India

- ♦ Analyzed **2000+ cell images** using **machine learning**, resulting in a peer-reviewed publication.
- ♦ Built **MATLAB** visualizations and **Python**, **Django** analysis, boosting report accuracy by 40%.
- ♦ Collaborated in 50+ project meetings, Extract, cleanse, and compiled data from **CSV/Excel**, **SQL Server**, **Snowflake**, **ETL** processing tools and **Salesforce/CRM**.

## Projects

**UI/UX Development** (E-commerce system), UCM

- ♦ Defined user requirements for the **UCM** Bookstore app, crafted a responsive front-end with **HTML**, **CSS**, **Webflow**, and **Figma**, boosting user engagement by **30%**, and improved app performance by **25%** through meticulous tuning and monitoring, leading to a 40% boost in web performance using **Web Assembly**.

**Buffer Overflow detection in C programs using CNN model**

- ♦ Developed a **CNN** network and trained it using tensors generated from C/C++ programs, that predicts whether the input C program contains any **buffer overflow** vulnerability or not.

**Ethereum smart contract between cloud user and provider**

- ♦ Developed an **Ethereum** smart contract between a cloud user and provider, where the user is charged with Ethereum coins from his account, for each hit made to the website hosted in **Google cloud Platform**.

## Skills

Java 17 | J2EE | Javascript | HTML5 | CSS | RESTful API | AJAX | Docker | Kubernete | REST | JSON | CI/CD pipelines | SQL | NoSQL | MongoDB | Spring MVC | Spring Boot | Spring Security | Hibernate | Angular | Jenkins | React | AWS | Azure | Lambda

## Additional Skills

IntelliJ | VSCode | GitHub | Unix | Linux | Agile(Scrum, Kanban) | Collaboration | Teamwork | Communication | Cross-functional | MVC | SDLC | DSA | EC2 | Back-end | Front-end | DevOps | Microservices | Web Services(REST, SOAP)

## Education

**Master of Science**, University of Central Missouri  
Computer Science

01/2023 - 05/2024 | UCM, USA

## Certificates

- ♦ The Ultimate Java course - codewishmosh
- ♦ Microsoft AZURE Fundamentals[az900]