

# PRAMITHI JAGDISH

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*Full-stack Software Developer with over three years of experience in product, systems, and mobile development with expertise in JavaScript, Java, Python and Cloud Technologies. Seeking opportunities starting in Jan '24.*

## EDUCATION

### Northeastern University (GPA: 3.5)

Boston, MA

*Master of Science in Software Engineering Systems*

*August 2021 - December 2023*

**Coursework:** Object-oriented Programming, Design Patterns, Data Structures and Algorithms, Practical Applications of AI Generative Modeling, Web design, Network Structures & Cloud Computing, Advanced User Experience Research

**Leadership:** Senator in the Graduate Student Government and Mentor in the National Grid Fall CECA program

### PES University

Bangalore, India

*Bachelor of Technology in Computer Science*

*August 2014 - December 2018*

**Extra-curricular:** Organized **TEDxPESITBSC** and **InGenius Hackathon** as part of ACM Student Chapter

**Research :** Selected from 1,500 applicants to present at RISE Conference. Evaluated time-series algorithms using clinical data, optimizing precision, data pre-processing, and feature extraction.

## EXPERIENCE

### Amazon Robotics

Boston, MA

*Software Development Engineer Co-op (Automation)*

*August 2022 - December 2022*

- Revitalized Amazon fulfillment center operations by optimizing API calls based on stakeholder feedback
- Built **Micro-service** based **REST API** for Slack thread-driven ticket generation, cutting resolution time by **47%**
- Strengthened API security with **HTTPS encryption**, input **validation** & **sanitization**, mitigating **XSS risks**
- Refactored JS code for streamlined **data retrieval** from robotic drive units, slashing API call frequency by **64%**
- Performed **real-time data caching** and **global API integration**, increasing data availability

### Accenture

Bangalore, India

*Software Engineer - R&D Data Operations Team*

*May 2018 - June 2021*

- **SME** in a cross-functional team, restructuring clinical data flows across **44 global markets** and **13,000 users**
- Enhanced **ETL** efficiency with **Data Integration**, prioritizing real-time ingestion from diverse data sources
- Enforced enterprise-wide monitoring and control, resulting in a **74% increase in efficiency & performance**
- Earned the **Accenture Celebrates Excellence (ACE)** award in recognition of these impactful contributions

## PROJECTS

### DevOps & CI/CD Integration for cloud-native application (Node.js, Express, Mysql, Mocha, Chai, AWS)



- Developed a secure, scalable, fault-tolerant, and distributed microservice application for user data management
- Created CI/CD pipelines using **GitHub actions & CodeDeploy** and resource stack with **CloudFormation**
- Managed load with **auto-scaled EC2 instances**, applied **IAM** policies, **Security groups** & **AWS WAF**
- Executed **serverless** email verification using **Lambdas**, **DynamoDB**, **S3** & **DNS** mapping with **Route53**

### Inventory Management System (Java, Design Patterns, SOLID Principles)



- Devised a highly scalable Inventory Management application, incorporating **10+ design patterns**, **OOP**, and **SOLID design principles** for improved architecture and efficiency

### Analysis of sorting algorithms for Natural Language (Java, JUnit, MongoDB)



- Implemented **MSD & LSD Radix Sort**, **Dual-Pivot & Quick Sort** to sort 1 million Telugu & Chinese words
- Evaluated algorithms for **Unicode characters**, conducted benchmarks & generated performance report

### Ischemic Heart Disease Risk Prediction (Java, Python, JSP, MySQL, Android Studio)



- Led a 4-member team creating an **Android app** for Heart Disease risk prediction. Utilized **C4.5 decision tree** & **K-means** for data mining, achieving **88.4% accuracy** & **90.3% sensitivity**

## SKILLS

**Languages & Database:** Python, Java, JavaScript, C#, C++, HTML5, CSS, SQL, MongoDB, Redis, Hadoop

**Frameworks & Web Technologies:** React.js, Node.js, Express.js, Typescript, SpringMVC, JUnit, JMeter, Mockito

**ML & DS:** TensorFlow, PyTorch, Jupyter Notebook, Scikit-Learn, PySpark, Pandas, NumPy, Matplotlib

**Certification:** Microsoft Azure Fundamentals AZ-900