

Venkat Sai Putagumpalla

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EDUCATION

University of Florida, Gainesville, US
Master of Science in Computer Science

Expected May 2024
GPA: 3.70/4

- Relevant Coursework: Distributed Operating Systems, Advanced Data Structures, Computer Networks, DBMS

Gandhi Institute of Technology and Management, Visakhapatnam, India
Bachelor of Technology in Computer Science and Engineering

May 2021

- Relevant Coursework: Programming with Java, Software Engineering, Operating Systems, Data Structures

EXPERIENCE

Tata Consultancy Services, Hyderabad, India
Systems Engineer

Dec 2021 - Aug 2022

- Integrated Differential Privacy masking into the Dataplus platform, resulting in it becoming most widely used masking technique among Dataplus clients
- Collaborated with team lead to manage Dataplus for 6 months, focusing on fixing bugs, debugging and updating legacy code written 10-15 years ago, ensuring best performance and security for clients
- Managed end-to-end product deployment as the Build Single Point of Contact (SPOC) with Jenkins. Reconfigured workflow pipeline, resulting in a 20% reduction in deployment time for new versions

Assistant System Engineer

Jun 2021 - Dec 2021

- Regulated migration to cloud-based microservices with Java, Spring Boot, and Spring MVC, leading to increased scalability, a 60% performance improvement, and streamlined development
- Overhauled and refactored modules of a live microservice developed on Spring boot, REST APIs, and Spring MVC pattern based on functional feedback reducing traffic transactional workload by 30%
- Developed a volume data generation technique that reduced processing time by 75%. Improved time complexity from $O(n^2)$ to $O(n \cdot \log n)$, enhancing processing efficiency

Versatile Mobitech Inc, Hyderabad, India
Software Engineer Intern

Sept 2020 - May 2021

- Boosted conversion rates by 27% through streamlined checkout processes, including one-click purchasing, guest checkout options, and real-time inventory management.
- Automated invoicing with node-schedule, reducing workload by 30% and ensuring timely payments by configuring SMTP for email reminders

PROJECTS

Twitter Clone Engine | *Distributed System*

- Created a distributed Twitter Clone engine capable of supporting up to 10,000 concurrent users, featuring user registration, tweet posting with hashtags and mentions, subscriptions, re-tweets, and live delivery of tweets
- Utilized statistical modeling techniques to simulate a Zipf distribution to analyze and forecast subscriber growth

Arrhythmia Detection | *Machine Learning*

- Transformed 3,000 instances of ECG data into NumPy arrays and employed machine learning algorithms such as Support Vector Machines, Logistic Regression and, Neural Networks to achieve 96.4% accuracy
- Engineered an innovative solution to address project's most formidable challenge: converting frontend-generated images into Python-readable NumPy arrays

Movie Reviews Website | *Web Development*

- Built a web application enabling users to share movie reviews, seamlessly integrating website with The Movie Database (TMDB) database via API, boasting over 800,000 movie records
- Implemented robust user authentication and authorization using JSON Web Tokens and OAuth 2.0, industry-standard protocols for secure access control

TECHNICAL SKILLS

Languages

Java, JavaScript, TypeScript, Python, Erlang, HTML, CSS, C++

Databases

PostgreSQL, MongoDB, MySQL

Tools

Spring Boot, Maven, Spring Data JPA/Hibernate, Jenkins, Angular, Boot-Strap 4, Maven, Node.JS, React

Platforms/Others

GitHub, XML, JSON, Kali Linux