Subhiksha Seshadri Nallore

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EDUCATION

New York University Expected Graduation: May 2026
Master of Computer Science **GPA: 3.7/4.0**
Coursework: Operating Systems, Design and Analysis of Algorithms, Deep Learning, Machine Learning, DBMS
National Institute of Technology Karnataka, Surathkal June 2018 - June 2022
Bachelor of Technology in Electrical and Electronics Engineering **GPA: 3.8/4.0**

TECHNICAL SKILLS

Programming Languages: C++, Java, Python, JavaScript, Go, HTML/CSS, Kotlin
Frameworks: Django, Spring Boot, Node.js, REST API, Mockito, Spruce, React.js, Next.js, Angular.js
Database & Data Analysis: SQL, MySQL, MongoDB, PostgreSQL, PL/SQL, Apache Spark, Hadoop
Machine Learning & Data Science: Pandas, NumPy, SciKit-Learn, OpenCV, TensorFlow, Keras, Pytorch, Matplotlib
DevOps & Tools: Git, GitLab, AWS, Docker, CI/CD, Linux/Unix, Shell scripting, Debugging, Jira, TeamCity, IntelliJ IDEA

WORK EXPERIENCE

Oracle, Software Engineer **June 2022 - July 2024**

- Designed and developed scalable **Supply Chain Management (SCM)** solutions for **40,000+** global customers in Oracle NetSuite ERP using **Java, Spring Boot, and Oracle DB**, optimizing warehouse management and order processing
- Optimized **PL/SQL** queries and procedures, reducing query latency by **30%**. Diagnosed and resolved high-impact **production issues** and **customer-reported bugs**, delivering timely hotfixes.
- Refactored database schema and implemented **RESTful APIs** to support Vendor Return Processing workflows. Engineered backend logic for bin transfers and inventory tracking, reducing return processing time by **40%**.
- Implemented unit and automation tests using **JUnit, Groovy, Mockito and Spruce** test framework, ensuring smooth **CI/CD integration** via Jenkins pipelines to improve code quality and reduce post-deployment issues.
- Developed a configurable inventory picking workflow UI, auto-generated via metadata, enabling adaptive form rendering, using **Java, Spring and Netsuite APIs**, upgrading warehouse operation efficiency by **25%**.
- Improved data validation and transactional integrity through structured exception handling and user-friendly alerts, reducing **production support tickets by 30%**.
- Contributed across the **SDLC** and mentored junior developers, supporting Agile practices that reduced sprint spillovers by **20%**.

Micron Technology, SSD Firmware Intern **May 2021 - July 2021**

- Created a **SSD log parser** in **python** for targeted debugging of unique **15+ SSD failure roots**.
- Designed **Zoned Namespace Model** in **C++** to handle various I/O commands as per **Microsoft** specifications. Mapped logical-to-physical SSD data flow, boosting ZNS **data handling** and **memory utilization**.

PROJECTS

NYC Taxi Fare Prediction

- Engineered a python ML model to predict NYC taxi fares from 55 million trip records, enabling fair pricing.
- Applied feature engineering on trip distance, time, and location using Pandas, NumPy, and Geopy, with preprocessing via Scikit-learn for scaling and encoding.
- Optimized an XGBoost Gradient Boosting model (RMSE: 2.72, R^2: 81.7%), to outperform traditional regression models.
- Built an interactive web interface with Flask and React.js for real-time fare predictions, ensuring deployment readiness

College Voting System based on Facial Authentication

- Architected a React.js-based Online Voting System with a Node.js backend, establishing smooth candidate selection for up to 8000 concurrent users, demonstrating exceptional scalability and performance.
- Integrated advanced facial authentication via OpenFace API, verifying the legitimacy of voters with a 95% accuracy rate, enhancing system security and mitigating the risk of fraudulent activities.
- Incorporated a real-time analytics dashboard using React.js and MongoDB, providing insights such as voter turnout percentage, candidate preferences, and voting trends, leading to a 60% increase in voter participation.

HarmoniAI: Sentiment-Aware Journaling with GPT & MusicVAE

- Built a full-stack journaling web app using React, Next.js, and Tailwind CSS, integrating VADER sentiment analysis to recommend dynamic music based on user emotion.
- Integrated OpenAI GPT APIs to generate mood-aligned prompts and personalized journaling completions.
- Enabled melody generation with MusicVAE, along with URL sharing, privacy settings, and social media integration.

FoodX: Social Media Platform for Food Vloggers

- Devised a food vloggers social media platform with Angular.js and MongoDB, featuring channels, video uploads, and real-time notifications via WebSockets, optimizing message latency by 30%.
- Modeled and implemented advanced search functionality using MongoDB's full-text search, enabling users to find recipes by title, description, and ingredients, accelerating content discoverability and user experience.
- Integrated an automated system to analyze 1300+ user-submitted ingredients, providing users with effortless access to comprehensive nutritional information and enhancing the overall food-related upload experience.