ARPITA PATNAIK

Gainesville, FL 32608
Email: patnaikarpita100@gmail.com | Phone: +1 (352) 328-0589
GitHub: https://github.com/arpita31 | LinkedIn: https://www.linkedin.com/in/arpitapatnaik10

Professional Summary

Results-driven Software Engineer with 5 years of experience specializing in backend development, database optimization, and full-stack web application development. I am experienced in writing production-level code using Python and Django, and have extensive experience working with databases such as PostgreSQL and Redis to deliver robust and scalable solutions.

Education

University of Florida, Gainesville — **Aug 2023 − May 2025**
Master of Science in Computer Science — *GPA: 3.63/4*

National Institute of Science and Technology, India — **Aug 2012 − 2016**
Bachelor of Technology in Information Technology — *CGPA: 8.19/10*

Experience

Mindtree Ltd. (Bengaluru, India) | **Senior Software Engineer** — Jul 2016 − 2021

- Reduced P90 latency of our critical user service API by 75% (from 20 to 5 seconds) using a read-through cache (Redis) and a smart retry mechanism, improving system performance and stability.
- Built a feature fencing system with Admin dashboard in Django/Redis that enabled real-time feature control and group-based targeting, reducing downtime risks and enabling faster product iterations.
- Engineered auto-update component for desktop applications using C Sharp and automated deployment processes with CI/CD pipeline implementation and API integration.
- Took ownership of adding unit testing strategies using Xunit and TypeMock, achieving 75% coverage in one quarter following software development lifecycle standards.
- Revamped user details section to aggregate data from multiple reports, improving system architecture, database management, and user experience.
- Designed and implemented theme/skin using DevExpress, WinForms, and WPF for five Windows applications with Dark Mode UI, enhancing full stack development capabilities.

Projects

M3: Mood Movie Matcher | *Python, PyTorch, Machine Learning, NLP, scikit-learn, Transformers* | Github Repo

- Developed ML-powered movie recommendation system using RoBERTa sentiment analysis and Autoencoders on MovieLens dataset, enabling discovery of personalized best matches and hidden gem films through interactive command-line interface.

Safe Data Cloak and Lift The Veil | *Python, SpaCy, scikit-learn, sentence transformers* | Github Repo

- Designed scalable data privacy system utilizing NLP transformers for precise redaction of sensitive data including PII, dates, phone numbers, and domain-specific concepts.
- Built unredaction functionality using NLTK and Random Forest algorithms with enterprise API integration capabilities.

CodedCore | *Python, Django, Bootstrap, PostgreSQL, Full-Stack Development* | Github Repo

- Created comprehensive blogging platform for algorithms and data structures content through full-stack web development using Django framework, HTML/CSS, and PostgreSQL database optimization.

LeoZen Bot | *Python, Discord API, Web Scraping, zenquotes.io* | Github Repo

- Developed automated Discord bot with API integration for user engagement and motivational quote delivery, extracting quotes from zenquotes.io using web scraping techniques.

Spherical Object Image Processing | *Java, JavaFX, OpenCV* | *Github Repo*

- Achieved accurate real-time counting of upward and downward ball movements through developed computer vision application using Java and OpenCV for spherical object tracking and motion analysis.

Technical Skills

Languages: Python, C Sharp, JavaScript, TypeScript, HTML/CSS, SQL
Frameworks: Django, Flask, RESTful APIs, ReactJS
Databases: PostgreSQL, Redis
Cloud and DevOps: AWS, Git, Jenkins, Docker, CI/CD Pipeline, Linux
Testing and Quality: Unit Testing, XUnit, TypeMock, pytest, TDD, Postman
AI and ML: PyTorch, NumPy, Pandas, TensorFlow

Certifications and Coursework

Certifications: AWS Certified Cloud Practitioner (April 2025)
Coursework: Machine Learning, Analysis of Algorithms, Distributed Operating Systems, Computer Networks, Data Engineering, Computer Network Security

Leadership and Extracurricular

- Received Achievement Award Scholarship by University of Florida for academic excellence and software engineering achievements.
- Secured Teaching Assistant position for Analog Electronic Circuits, mentoring undergraduate students in technical problem-solving.
- Executed event coordination and management for large-scale gatherings at O'Connell Center ensuring smooth operations and positive experiences.