

Prathamesh Nehete

480-873-0791 | prathameshnehe2026@u.northwestern.edu | linkedin.com/in/nehete23 | github.com/pnehete23 | Portfolio

EDUCATION

Northwestern University, M.S. in Data Science

September 2025 – November 2026

Arizona State University, B.S. in Computer Science; Business Minor

August 2021 - May 2025

Seeking intern/fulltime SWE/Data and Business Analyst/AI/ML positions at Amazon

WORK EXPERIENCE

Electroactive Technologies (Remote, full-time summer/Part time during school)

Knoxville, TN

Software Development Engineering Intern

May 2024–Jan 2025

- Engineered **distributed data processing** pipeline in **C++** with multithreading, reducing latency by **40%** for systems
- Collaborated with 5-person cross-functional team building **fault-tolerant** microservices handling **2M daily requests** at scale
- Implemented **caching layer** using Redis and load balancing, improving API response times from 800ms to 200ms
- Applied **machine learning algorithms** for predictive auto-scaling in AWS, optimizing resource allocation by **25%** cost-effectively
- Skills:** C++, Distributed Systems, Object-Oriented Design, Redis, ML Algorithms

Tech Mahindra

Pune, India

IT Support Engineering Lead

May 2023 - Aug 2023

- Designed **Java-based** monitoring system with Kafka streaming, tracking 500+ servers ensuring **99.9% uptime** consistently
- Optimized **SQL queries** with indexing strategies, reducing database load by **40%** across multiple production systems
- Led team of 8 engineers implementing **automated alerts** with PagerDuty, preventing 200+ critical incidents monthly
- Developed **anomaly detection** system using Python scikit-learn and pandas, identifying infrastructure issues **3x faster**
- Skills:** Java, SQL, Python, Machine Learning, System Monitoring

YYC Beeswax LTD (ASU Capstone)

Alberta, Canada

Software Development Engineer Intern

Aug 2024 – Mar 2025

- Built WordPress plugin with **React** frontend and TypeScript, processing **3000+ transactions** monthly through secure channels
- Developed **RESTful APIs** in **Node.js** with JWT authentication, connecting Stripe payments to MySQL database securely
- Reduced checkout abandonment by **35%** through optimized loading, error handling, and user experience improvements
- Implemented **recommendation engine** using collaborative filtering and matrix factorization, increasing customer sales by **20%**
- Skills:** React, Node.js, RESTful APIs, MySQL, Recommendation Systems

PROJECT EXPERIENCE

ResumeCraft: AI-Powered Resume Builder | Next.js, React, TypeScript, JavaScript, Python, Tailwind CSS

- Developed AI-powered resume builder with GPT integration, featuring LaTeX generation optimizing for ATS systems
- Created performant interfaces with React and webpack optimization, integrating Framer Motion for smooth and fast UI
- Built **distributed storage** system handling **10K+ daily requests** with **fault-tolerant** design and automatic failover
- Implemented **NLP models** using Python NLTK and spaCy for keyword extraction and semantic matching algorithms

AI Data-Science Mentor with Voice Enabled | OpenAI GPT, Claude AI, JavaScript, TypeScript, React

- Built conversational AI mentor with voice recognition, integrating GPT for accessible, performant user experiences globally
- Designed for growth and iterative improvement, aligning with **agile** methodologies and rapid development cycles
- Developed **query systems** using advanced **algorithms** to handle **ambiguous problems** and edge cases effectively
- Trained **sentiment analysis** model using BERT, achieving **92% accuracy** on diverse user feedback datasets

Medicure AI Doctor | Google Gemini, Pinecone, Hugging Face, Python, JavaScript, React

- Developed medical assistant using RAG architecture for real-time queries with performance focus and HIPAA compliance
- Achieved **sub-200ms** response with **98% accuracy** using **object-oriented** programming and efficient data structures
- Created **Tableau** dashboards with **linear programming** optimization, improving patient flow and reducing wait times
- Built **classification model** using TensorFlow and Keras, diagnosing symptoms with **95% precision** and recall metrics

SKILLS

Languages: R, Python, C++, C#, JavaScript, GoLang, React.js

Core CS: System Design, OOP, APIs/RestAPIs, Multi-tiered Systems, Data Structures

AI/ML & Data: Machine Learning, NLP, TensorFlow, scikit-learn, SQL, Data Modeling, Tableau

CERTIFICATIONS

Infosys Springboard: Software Engineering | Cloud Computing (AWS, Docker, Kubernetes) | Intro to AI