Pragati Chaturvedi

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Portfolio | GitHub

SUMMARY

Aspiring Software Engineer and a Master's student in Computer Science with hands-on experience in Web and Mobile development, specializing in React Native, Node.js, and Python. Proficient in building AI-driven applications and responsive websites, actively seeking opportunities to apply technical skills in software engineering roles.

EDUCATION

California State University, Sacramento, California, USA   Aug 2023 – May 2025
Master of Science, Computer Science   **GPA – 3.79/4.0**
Courses – Machine Learning, Artificial Intelligence, Algorithms and Paradigms, Computer Architecture, Data Models and Database Management Systems, Parallel Programming in GPUs, Computer Systems Structure, Programming Methodology

Devi Ahilya University, Indore, Madhya Pradesh, India   Jan 2021 – June 2022
Post Graduate Diploma, Computer Applications   **CGPA – 8.69/10**
Courses – Object Oriented Programming in Java, Distributed Systems, Network Security, Database Management Systems, Computer Organisation and Architecture

EXPERIENCE

Web Developer – Department of Information Resource and Technology, CSU Sacramento   Jan 2024 – May 2025
- Collaborated with Web and Mobile Services to build and maintain responsive websites and apps aligned with stakeholder requirements.
- Enhanced mobile responsiveness and cross-browser compatibility by 30% through code optimization and custom CSS/JavaScript fixes.
- Led ADA compliance project using Siteimprove and Cascade CMS, achieving 100% accessibility.
- Integrated multimedia content and implemented data-driven features, boosting user satisfaction by 25%.

SKILLS

Programming Languages – Python, JavaScript, Java, C/C++, MySQL

Web & Mobile Development – HTML/CSS, JavaScript, ReactJS, Vue, BaBel, Vite, React Native, Angular, Bootstrap, Node.js, Flask, FastAPI, REST APIs, Responsive Design, Web Accessibility, Expo Router, Cascade CMS, Siteimprove, Google Analytics 4

Database & Cloud technologies – MongoDB, MySQL, Google Firebase, Firestore, AWS (S3, EC2, Elastic Beanstalk, CodePipeline)

Machine Learning & AI – TensorFlow, PyTorch, Keras, scikit-learn, Pandas, Numpy, Matplotlib, OpenCV, NLTK, OpenAI ChatGPT API, Gemini API, Predictive Modelling, Statistical Analysis, Deep Learning, Generative AI

GPU & Parallel Computing – CUDA, OpenCL, NVIDIA GPU

Development Tools & Platforms – Git/GitHub, Linux/Unix OS, Visual Studio Code, PyCharm, Jupyter Notebook, Eclipse, Anaconda, Collab, Postman

PROJECTS

ChicMate – AI Outfit Recommendation Mobile App | React Native, FastAPI, Gemini API, CLIP, Firebase | GitHub
Built an AI-powered mobile app providing personalized outfit recommendations based on weather, occasion, and user's wardrobe, leveraging generative AI for natural language processing and advanced image-recognition models for accurate clothing tagging and matching and reduced user's daily outfit selection time by approximately 80%.

MindShelf – A Personal Knowledge Library | React, Nodejs, Google Gemini API, MongoDB Atlas, AWS EC2, CodePipeline | GitHub
Built in less than 24 hours at MLH AI Hackfest, MindShelf lets users save and summarize online content with Gemini, organizing it into a searchable library via a React dashboard, Chrome Extension, and MongoDB-backed storage.

LibBot – AI-Driven Library Management | Python, Flask, OpenAI GPT API, Google Sheets API, NLP, Function-calling | GitHub
Developed an AI-powered chatbot integrating OpenAI's GPT and Google Sheets to streamline library inventory management with 97% chatbot intent-recognition precision. Enables intuitive, real-time interactions through natural language, automating book queries, additions, updates, and inventory checks improving efficiency by 75%.

Cache Controller – 4-way Set-Associative Cache | C++, Data Structures, Cache Optimization, Memory Management | GitHub
Engineered a 4-way set-associative cache controller in C++, implementing Least Recently Used (LRU) algorithms and cache coherency protocols to optimize memory management, significantly enhancing data retrieval performance and system efficiency.

Task Manager App – Productivity Desktop Tool | Java, JavaFX, SQLite, OOP, MVC Architecture | GitHub
Built a desktop app for managing and prioritizing daily tasks with features like categorization, due dates, completion tracking, and real-time search. Used JavaFX for an intuitive UI, SQLite for local storage, and followed OOP and MVC for maintainability.

CERTIFICATES

The Web Developer Bootcamp	Introduction to Cybersecurity - Cisco Networking Academy
Artificial Intelligence Training Program	AWS Educate - Introduction to Generative AI