

# PRABAL MANCHANDA

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## EDUCATION

**Advanced Diploma: CST-Software**

**Expected Graduation:** Dec 2025

**Development and Network Engineering**

**Relevant Coursework:** Data Structures & Algorithms · Software Engineering · Data Science · Data Communications & Networking

## TECHNICAL SKILLS

**Languages:** JavaScript (3 yrs), Python (3 yrs), SQL (3 yr), Java (4 yrs), Swift (1 yr), C (2 yrs)

**Frameworks & Tools:** AWS, GCP, Docker, Kubernetes, React Native, Jupyter Notebook, Next.js, Git, Bash, LangChain

**Certifications:** Node.js, Python, Data and Programming Foundations for AI, Microsoft Azure, PostgreSQL, Ruby, DevOps, JavaScript, React, Ruby, Lua

## WORK EXPERIENCE

### GenieAiNow

Software Developer

December 2024 – Present

- Engineered innovative AI/ML solutions by deploying advanced LLM models using Python, Azure, and OpenAI, enhancing platform efficiency and user engagement.
- Built **CI/CD pipelines** using **Azure DevOps**, automating deployment processes for scalable AI/ML models.

### Skill Squirrel

AI Developer

September 2024 - December 2024

- Developed a seamless NLP-driven feature by integrating OpenAI's API with React and Azure infrastructure, increasing user interactions by 25%.
- Optimized serverless computing performance, utilizing Azure Functions to achieve 99.9% uptime while reducing operational costs by 20%.

### Headstarter AI

Software Developer Fellow

July 2024 - October 2024

- Contributed to high-impact open-source projects, collaborating with diverse teams to develop scalable applications recognized at major hackathons.
- Spearheaded a startup backlog optimization, translating business requirements into efficient, deployable code to meet project deadlines ahead of schedule

### Zeuty

Back End Software Developer

June 2024 - September 2024

- Developing high-performance applications using Node.js and TypeScript, showcasing strong front-end and back-end skills.
- Utilizing Azure for efficient application deployment and scaling, demonstrating proficiency in cloud services.
- Designing and implementing database schemas and queries using PostgreSQL for efficient data handling.

### Skill Squirrel

January 2024 - April 2024

Junior Software Developer

- Led research efforts utilized technologies like Node.js API and Azure Prompt Flow for enhanced feature integration in Skill Squirrel.
- Utilized Jira and GitHub for project management and version control, creating branches and handling pull requests.
- Collaborated remotely to develop and implement a new feature using Node.js, React, and OpenAI, while managing personal local development and managing application using Azure.

## PERSONAL PROJECTS

**Deeproot** | *Vue.js, Python, Azure, OpenAI* (~40 hours so far)

Jan 2025 – Present

- Browser extension** for real-time market insights, leveraging OpenAI-driven analytics.
- Deployed on Azure for scalable performance, providing personalized stock updates and news

**PredictiFlow** | *Python, TensorFlow, Flask, Docker* (~35 hours so far)

December 2024 – Present

- Real-time predictive analytics** model with a Flask API backend.
- Containerized with Docker, optimizing for scalability and rapid deployment.

**PhrasePerfect** | *React, Gemini AI, Firebase, MongoDB*. (~20 hours)

[Link to Project](#)

July 2024 – September 2024

- AI-driven writing assistant** with paraphrasing, grammar checking, summarization, translation, AI detection, and citation generation.
- Achieved **secure real-time updates** via Firebase, harnessing Gemini AI for advanced text processing.

**Skeleton** | *Flask, React, MongoDB, Docker*. (~29 hours)

[Link to Project](#)

March 2025 – April 2025

- Automated project scaffolding** for full-stack builds (Flask backend, React frontend).
- Streamlined workflows, allowing faster initialization with integrated Docker configurations.

**GitProfile** | *React, TypeScript, Tailwind CSS, GitHub API*. (~18 hours)

[Link to Project](#)

March 2024 – April 2024

- Personalized GitHub portfolio** displaying user stats, projects, and contributions via GitHub API.
- Features PWA capabilities and Google Analytics for performance monitoring.

## EXTRA CURRICULAR

- Events Coordinator** (Sheridan Swiftie Club): Organized campus-wide events to foster community.
- Open-Source Contributor**: Improved developer tooling and compatibility features for community projects.
- Technical Writer**: Created tutorials and documentation on AI/ML, cloud computing, and programming best practices.
- Hackathon Enthusiast**: Participated in multiple AI/ML hackathons, demonstrating quick prototyping skills under pressure.