

# Samarth Patil

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## Education

**PCET's Pimpri Chinchwad University**, *B.Tech, Computer Science Engineering*

**Aug 2027**

**Specialization:** Artificial Intelligence and Machine Learning

**Coursework:** Data Structures and Algorithms, Machine Learning, Deep Learning, Computer Networks, Database Management Systems, Operating Systems, Software Engineering, Web Development, Cloud Computing

## Experience

**ACM Student Chapter**

**Jan 2025 - Jan 2026**

*Vice President*

- Strengthened leadership abilities and fostered effective collaboration within teams of 50+ student members
- Applied advanced knowledge in software development, artificial intelligence, and cloud computing to organize technical workshops
- Successfully organized and led multiple workshops and events, increasing chapter participation by 40%

## Technical Skills

**Languages:** Python, Java, JavaScript, TypeScript, SQL, HTML, CSS, GraphQL

**AI/ML & Data Science:** TensorFlow, PyTorch, scikit-learn, NumPy, Pandas, SciPy, Matplotlib, Plotly, NLTK, Data Cleaning, Feature Engineering, EDA, Statistical Modeling, ML Pipelines

**Web & Backend:** React, Next.js, Flask, Django, Spring Boot

**Databases & Tools:** MySQL, PostgreSQL, MongoDB, Git, Docker, Kubernetes, AWS, Linux, Postman

## Academic Projects

**Official Website Development for ACM Chapter**

[GitHub](#) — [Demo](#)

- Developed a high-performance ACM website using Next.js, React, and TypeScript, showcasing innovation and technology at PCU
- Integrated GSAP, Three.js, Parallax, and Framer Motion for visually stunning animations and seamless user experience
- Implemented GraphQL APIs and Tailwind CSS with a Glassmorphism UI design, ensuring fast, responsive, and scalable performance

**UniPass – AI-Powered Event Attendance Intelligence Platform**

[GitHub](#)

- Built a scalable full-stack platform (FastAPI, PostgreSQL, Next.js) enabling secure JWT-signed QR attendance with real-time validation and multi-day event enforcement
- Designed a cryptographically verifiable certificate system (SHA-256 hashing) with role-based access control, audit logging, and fraud-resistant participation tracking
- Integrated AI modules including Isolation Forest anomaly detection and NLP-based sentiment analysis to transform raw attendance data into actionable behavioral insights

**Zecure – AI Powered Cybersecurity Guardian**

[GitHub](#)

- Developed a modular AI cybersecurity framework to detect and neutralize threats in real time using autonomous agents (PhisherHawk, TransactionSage, LeakSniper)
- Built full spectrum defense tools including a CLI scanner, Chrome extension, real time server monitoring, and a React + Globe.gl 3D threat dashboard
- Designed scalable architecture with Python, Node.js, Docker, gRPC, and HuggingFace models (BERT, GNNs, LLMs) for adaptive, self learning security

**SkillSwap – Peer to Peer Learning Platform**

[GitHub](#)

- Led Team Spartan to Top 10 among 60+ teams in a university-level hackathon, building SkillSwap, a peer to peer skill exchange platform
- Designed the platform to allow users to offer and learn skills via a dynamic, user friendly matching system using React and Node.js
- Managed project planning, technical implementation, and team collaboration across frontend, backend, and database components

## Achievements

**University Hackathon 2024** Achieved Top 10 ranking among 60+ teams in university level competition

**ACM Chapter Leadership 2025** Selected as Vice President of ACM Student Chapter.