Ritik Pandey

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Career Objective

Backend software developer specializing in API architecture, system security, and scalable web applications. Seeking Software Development Engineer roles leveraging expertise in Python, FastAPI, and real-time monitoring systems to build high-performance solutions in cybersecurity or cloud-native environments.

Education

Visvesvaraya Technical University, Bengaluru   *Jun 2022 – Jul 2026*
B.E. in Computer Science and Engineering — CGPA: 6.8/10   *Bengaluru, Karnataka*

Experience

Shift Boolean — *Back-End Developer Intern*   *Jul 2025 – Sep 2025, Remote*

- Architected and Maintained RESTful APIs using FastAPI, reducing response by 25% through optimized database queries and caching strategies.
- Collaborated with frontend and DevOps teams to integrate MongoDB and implement CI/CD pipelines, ensuring 99.5% uptime for production services.
- Enhanced backend security by implementing JWT-based authentication and input validation, mitigation vulnerabilities in an Agile development cycle.

COPG Global PVT LTD — *Java Developer Intern*   *Apr 2025 – Jul 2025, Remote*

- Developed a complex Keylogger and System Monitoring Tool using Python (pynput, psutil, pyusb) for real-time threat detection, tracking keystrokes, process activity, and USB device.
- Designed modular architecture enabling seamless integration with existing security infrastructure, reducing manual monitoring efforts by 40%.
- Conducted comprehensive testing and debugging, ensuring reliable system-level performance across Windows and Linux environments.

Technical Skills

Programming Languages: Python, Java, C++, SQL, HTML5, CSS3
Web Technologies: React.js, Next.js, Node.js, Tailwind CSS, Bootstrap
Frameworks & Tools: FastAPI, RESTful APIs, Django, Flask, GitHub, ServiceNow UI Builder
Databases: MongoDB, PostgreSQL, MySQL
Cloud Platforms: AWS, Google Cloud Platform, Microsoft Azure
ML/Data Science: NumPy, Pandas, TensorFlow, Scikit-learn, PyTorch, Matplotlib, Streamlit
Real-Time Communication: Socket.io
Relevant Knowledge: Data Structures & Algorithms, OOPS, DBMS, Operating Systems

Projects

Diabetes Prediction System | Source Code   *Oct 2024 – Jan 2025*

- Engineered and deployed a diabetes prediction platform that achieved 82% accuracy on real-world datasets using logistic regression and decision trees.
- Automated and accelerated data analytics pipelines with scikit-learn, Pandas, and Matplotlib, boosting processing speed for 500+ patient records by 30%.
- Launched a Streamlit web app with Firebase authentication and multi-user support, enabling secure, real-time access for healthcare professionals.

KeyLogger and System Monitoring Tool | Source Code   *Apr 2025 – Jun 2025*

A cutting- edge cybersecurity solution designed to enhance system security through advanced user activity monitoring and real-tie threat detection.

- Built a cybersecurity monitoring tool in Python using pynput (keystrokes logging), psutil (process monitoring), and pyusb (USB device detection).
- Implemented real-time alert system for suspicious activity, enabling proactive threat mitigation for enterprise security teams.
- Applied software design principles to create a scalable, modular architecture suitable for integration with SIEM platform.

Achievements & Leadership / Positions of Responsibility

- Earned **20+ Google Cloud AI/ML badges**, including Generative AI, LLMs, and Responsible AI.
- Earned **AWS APAC - Solutions Architecture Job Simulation certificates.**
- Received **Certificate of Appreciation for coordination and technical contribution** at Project Exhibition 2025, M.S. Engineering College.