

Aaditya Anand

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SUMMARY

Results-driven Software Engineer with expertise in full-stack development, cloud computing, and automation. Proficient in Python, JavaScript, and SQL, with experience in building scalable applications, data pipelines, and AI-driven solutions. Passionate about optimizing system performance and delivering innovative, high-impact software solutions.

EXPERIENCE

Graduate Assistant

Aug 2024 – Present

University of Maryland, Baltimore County

Baltimore, MD

- Engineered Python automation scripts to process and analyze assessment data for 70+ students, slashing grading time by 40% and boosting feedback accuracy by 25%.
- Spearheaded implementation of version control and data validation workflows using Git and pandas, guaranteeing compliance with academic policies while diminishing error rates by 15%.
- Skills: Python, Workflow Automation, Data Processing, Version Control*

DevOps Intern

Feb 2023 – Aug 2023

Intellicus Technologies

Indore, India

- Revamped cloud deployment architecture for Kyvos platform by orchestrating auto-scaling and resource allocation strategies, cutting latency by 30% and amplifying scalability by 70% for enterprise clients.
- Architected and executed CI/CD pipelines using Jenkins and Selenium, transforming manual deployment processes into automated workflows, which eliminated 50% of manual effort and accelerated deployment efficiency by 65% within Agile sprints.
- Skills: AWS, GCP, Azure, Jenkins, Selenium, Agile Software Development, Workflow Integration*

Artificial Intelligence Research Intern

Sep 2022 – Dec 2022

Indian Institute of Technology

Kharagpur, India

- Pioneered and launched an automated web-scraping system using Python, Selenium, and BeautifulSoup, facilitating real-time data extraction from travel websites and eradicating 80% of manual collection effort.
- Formulated and implemented a machine learning model to calculate the Resident Satisfaction Index with 92% accuracy, harnessing statistical analysis and feature engineering techniques, which delivered actionable insights through interactive visualizations.
- Skills: Python, Selenium, BeautifulSoup, Machine Learning, Tableau, Matplotlib, Seaborn, API Integration*

PROJECTS

You've Been Hacked | *JavaScript, D3.js, Tableau, Plotly, Data Breach Analytics*

Feb 2024 – May 2024

- Conceptualized and constructed an interactive cybersecurity analysis platform using JavaScript and D3.js, generating dynamic visualizations of global data breaches that heightened data exploration efficiency by 60% for security researchers.
- Crafted integrated Tableau dashboards with custom metrics and KPIs for breach analytics, elevating stakeholder decision-making by 40% and securing system scalability through Agile methodologies.

Distributed File System | *GRPC, Multithreading, System Optimization, Git*

Aug 2023 – Dec 2023

- Forged a high-performance distributed file system with custom replication strategies, integrating GRPC-based communication protocols that strengthened fault tolerance by 35% and minimized system downtime.
- Turbo-charged system performance through advanced multi-threading and incorporated Bully algorithm for master-server election, yielding 25% faster data retrieval and establishing seamless failover handling during node failures.

EDUCATION

University of Maryland, Baltimore County

Baltimore, MD

Master of Science in Computer Science (GPA: 3.53/4.0)

Aug. 2023 – May 2025

Medi-Caps University

Indore, India

Bachelor of Technology in Computer Science (GPA: 3.6/4.0)

Aug. 2019 – May 2023

TECHNICAL SKILLS

Languages & Frameworks: Python, C++, Java, R, Bash, MATLAB, SQL, Node.JS, Flask, Spring Boot

Frontend Technologies: HTML, CSS3, JavaScript, TypeScript, React.js, Tailwind CSS, WebSockets

Cloud Services & DevOps: AWS(EC2, S3), GCP(Compute Engine), Docker, Kubernetes, Jenkins

BI & Data Analytics: Power BI, Tableau, Pandas, NumPy, Matplotlib

Databases: MySQL, PostgreSQL, MongoDB, Redis

Certifications: Google Data Analytics Professional Certification