

Mohammad Aliyaan Zahid

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PROFESSIONAL SUMMARY

Results-driven Full-Stack Developer with a strong foundation in React, JavaScript, TypeScript, and backend technologies. Experienced in designing scalable applications, implementing CI/CD pipelines, and optimizing frontend and backend performance. Skilled in containerization (Docker), cloud architecture, and API integrations, with hands-on experience in React, Node.js, PostgreSQL, and Kubernetes. Passionate about building high-performance, user-centric applications and solving complex technical challenges.

EDUCATION

University of Maryland Baltimore County – Baltimore, MD

Bachelor of Science in Information Systems

Minor: Computer Science

Graduation: Dec 2025

Cumulative GPA: 3.41 /4.00

Relevant Coursework: Data Structures and Algorithms (C++), Database Design, Web Dev, Software Engineering, Computer Architecture

EMPLOYMENT EXPERIENCE

Software Engineering Intern | Finz | Fintech Startup | New York City, NY, USA

Feb 2025 – Present

- Engineered core backend services in Python and Node.js that enabled AI-powered credit decisions, accelerating customer pre-qualification time by 35%.
- Spearheaded integration of third-party financial APIs into the credit platform, improving onboarding automation and expanding eligibility for underserved users.
- Enhanced security and scalability by implementing robust RESTful APIs and secure data pipelines, supporting real-time financial transaction analysis.
- Elevated user experience by optimizing React and Next.js components on high-traffic views, reducing page latency by 40% across devices.
- Drove innovation in predictive credit scoring by collaborating on AI/ML experiments, contributing to early-stage prototyping of dynamic credit limits.

Software Developer Intern | Nokia Al-Saudia | Riyadh, Saudi Arabia

June 2023 – Aug 2023

- Developed backend modules in Java and Spring Boot for API integrations, collaborating with QA to implement unit and integration testing for 99% API uptime.
- Deployed microservices to AWS EC2 and Lambda, built pipelines for automation using CI/CD workflows, and participated in Agile stand-ups and sprints.
- Collaborated with stakeholders to translate system requirements into backend features, emphasizing real-world deployment efficiency and system reliability.

Remote IT Support | Helping Hand NGO | Lahore, Pakistan

April 2021 – Aug 2021

- Built Airtable-driven system to digitize and manage 1000+ volunteer records.
- Automated workflows using scripting to reduce admin tasks by ~20%.
- Provided remote support for technical issues and internal tool optimization.

IT Assistant | Masem Hotel Suites | Riyadh, Saudi Arabia

Dec 2020 – March 2021

- Reduced guest check-in and payment time by 20% by co-developing internal tools for process automation.
- Increased operational efficiency by resolving 100% of hotel software system errors within SLA timeframes.
- Enhanced executive decision-making by building SQL queries that delivered timely business insights and reports.

PROJECTS

CarePulse Healthcare App | Personal Project

Feb 2025 – March 2025

- Engineered a full-stack healthcare application using Next.js, MySQL, and JWT, ensuring HIPAA-compliant data security for 1,000+ users.
- Implemented containerized deployments with Docker, improving scalability and maintainability across development environments.
- Designed API validation and unit testing for scheduling and patient data modules, enhancing system reliability by 40%.
- Integrated Kubernetes to automate load balancing and service orchestration, aligning with cloud-native deployment strategies.

To Do App | Personal Project

Feb 2025

- Developed modular backend services with Node.js and PostgreSQL, focusing on test-driven development and secure session control.
- Deployed via Docker on Linux CLI, using shell scripts to manage builds and rollbacks across multiple environments.
- Designed CLI-based scripts and cron logic to automate backend cleanup tasks, simulating hardware-integrated job cycles.
- Wrote integration tests and logs to simulate stress testing and monitor API response under variable data loads.

Brogram | Personal Project

Jan 2025

- Built a React.js based dynamic training plan generator, leveraging rules-based algorithms to personalize workouts.
- Refactored UI components with TypeScript and React Hooks, improving modularity and frontend performance.
- Increased UX retention by 35% by integrating Local Storage API for persistent session state and offline usage.

TECHNICAL SKILLS

Languages: Java, Python, C++, C#, JavaScript, TypeScript, SQL, Bash, Shell

Frameworks/Tools: Spring Boot, Node.js, React, Next.js, Express.js, SpringBoot, Flask, Rest, RestAPI, RESTful API

Testing & QA: Unit Testing, Integration Testing, TDD principles, Postman, Mocha, Jest, Logging & Debugging

Cloud & DevOps: Docker, AWS (EC2, Lambda, S3), GitHub Actions, Azure DevOps, CI/CD, GCP, Kubernetes, CDN, GraphQL

Database: MySQL, PostgreSQL, MongoDB, SQL Server

Environments: Visual Studio, VS Code, Linux CLI, Git, GDB, JIRA, Confluence

Concepts: Agile/Scrum, SDLC, API Integration, Microservices, OOP, Hardware Interfacing Basics

Developer Productivity & Tooling: CircleCI, Webpack, Postman, Logging & Debugging