Saad Zubairi

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Summary

Graduate student at NYU in Computer Engineering with experience in algorithm design, statistics, and ML-driven optimization. Skilled in Python, C++, and Java with coursework in Digital Signal Processing and ML Ops. Passionate about video streaming performance, adaptive algorithms, and large-scale system optimization.

Education

New York University, New York, NY   **Aug 2024 - May 2026**
MS Computer Engineering
Relevant Coursework: Deep Learning, ML Ops, Digital Signal Processing, Computer Networking

IBA Karachi, Karachi   **Aug 2019 – May 2023**
BS Computer Science
Relevant Coursework: Software Engineering, Web Dev, Game Dev, App Dev, Data Mining

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Work Experience

- **Student Software Engineer,** New York University, New York   **April 2025 - Present**
  - Redesigned and migrated NYU's placement exam portal into a modern T3-stack SPA, improving educational workflows for 2,500+ students per term with streamlined scheduling, grading, and role-based access.
  - Developed backend microservices with Prisma ORM, implementing tiered RBAC and automated monitoring for high-reliability student scheduling systems.
  - Added conflict detection to existing portals, reducing double-booking incidents by 99% among 5,000 users.
- **Software Engineer Intern,** Cloaked Inc., New York   **June 2025 – August 2025**
  - Automated geocoding and visualization of 2,000+ mailbox locations in a Next.js/OpenLayers dashboard with one-click CSV/PDF exports, streamlining enterprise data workflows.
  - Built internal Chrome extension integrated with Zendesk, automating classification of 1,200+ weekly tickets with 92% accuracy, accelerating support workflows and contributing to productivity tooling.
  - Developing an LLM based MVP cybersecurity training tool using Nuxt.js, delivering multiple interactive learning modules via a modular generative component-based interface.
- **Software Engineer,** Sadiq.ai, Santa Clara   **May 2024 – August 2024**
  - Led 5-engineer scrum, shipped SupportSphere MVP in 8 weeks, ran tri-weekly clinician feedback demos.
  - Optimized front-end components performance in Next.js and handled 90% of the back-end using Nest.js.
  - Streamlined developer workflow by implementing GitHub Actions CI/CD pipelines and Terraform-managed AWS infrastructure (6 EC2/RDS instances), enabling rapid MVP deployments.
- **Software Engineer, United Bank Limited,** Karachi   **July 2023 - April 2024**
  - Engineered 30+ Java/Temenos banking APIs for account management and reconciliation, cutting integration time by 60% and reducing API error rates below 0.5% in production-scale financial systems.
  - Designed and maintained all multi-threaded Java services within Unix-based Temenos systems.

Projects

- **FLP Exam Portal** (2025)**:** Consolidated a legacy exam site, ad-hoc tools into a unified T3-stack portal with RBAC, real-time conflict detection, and live scoring, handling 2,500+ submissions/term.
- **SupportSphere** (2024)**:** Built a healthcare BI portal integrating data pipelines and interactive dashboards using Next.js, Nest.js, and PostgreSQL; engineered 20+ data-driven user journeys with full CI/CD automation.
- **TalentHive** (2023): Developed a job-matching platform with a Python NER parser and recommendation engine, visualizing job–candidate matches in a dashboard interface, achieving 78% relevance in pilot tests.
- **Hoops** (2023): An anonymous letter writing application crafted using the MERN stack with 15+ features, includes a basic LLM integration for auto-drafting letters and MBTI-based recipient recommendations.

Skills

- **Core:** Java, Python, TypeScript, C/C++, Web App Dev, SPAs, Scalable Backend Systems,
- **Frameworks & Testing**: Next.js/React.js, Nest.js, Express.js Node.js, Nuxt.js/Vue.js, Jest, tRPC
- **Database Management**: MySQL, PL/SQL, NoSQL/MongoDB, PostgreSQL, Prisma
- **DevOps:** GitHub Actions (CI/CD), Terraform, Ansible, Docker, AWS, Prometheus, Grafana, ArgoCD, Selenium