Daniyal Abbasi

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Education

- **University of Florida** — Gainesville, Florida, USA
  Master of Science, Computer Science; GPA: 3.94/4.0 — *Aug 2024 - May 2026*

- **Jamia Millia Islamia** — Delhi, India
  Bachelor of Technology, Computer Engineering; GPA: 9.44/10.0 — *Aug 2017 - Jun 2021*

Work Experience

- **ClickPost AI (Felurian Technology Private Limited)** – B2B Post-Purchase E-commerce Platform — Delhi, India
  Software Engineer — *Aug 2023 - Aug 2024*

  - Redesigned and rewrote the notification module by migrating from Python to Java and modularizing the codebase, **reducing outages by 90%** and **doubling integration speed**.
  - Optimized Kafka workflows by splitting monolithic consumers into small sequential flows for independent scaling and allowing early traffic filtering, **reducing worker usage by over 50%** while ensuring SLA compliance.
  - Scaled the system throughput to process **1.5M+ daily orders** and deliver **200K+ real-time notifications** via SMS, email, and WhatsApp, ensuring customers and partners received timely order updates.
  - Incorporated ScyllaDB alongside PostgreSQL for write-heavy operations and primary-key lookups, **reducing database load by 80%** and enabling quicker single-record reads.

- **BusyOcto (Spotlight Shops Inc.)** – E-commerce and Digital Ads Platform — Austin, Texas | Remote
  Software Engineer — *Jul 2022 - Jul 2023*

  - Led the development of a drop-in Express.js backend on AWS EC2, replacing Firebase in under a week and establishing scalable infrastructure with more operational control.
  - Launched wallet, cashback, and subscription features, attracting **500+ active subscribers within 2 months**, by collaborating with the leadership team.
  - Reduced **operational costs by 55%** and improved scalability by introducing queuing mechanisms, async processing, and webhook integrations, unlocking higher throughput at lower infra cost.
  - Built CI/CD pipelines with GitHub Actions and AWS Elastic Container Service (ECS), enabling rolling deployments with **zero downtime** and faster release cycles.
  - Enhanced website performance and scalability by implementing CloudFront for CDN distribution, S3 for scalable storage, and AWS Lambda for automated asynchronous processing of routine jobs.

- **Innovaccer Inc.** – Digital Health Care — Noida, India
  Software Development Engineer — *Jul 2021 - Jul 2022*

  - Took ownership of 7 microservices within 4 months, delivering new features such as real-time appointments, video calls, medication reminders, and appointment booking.
  - Reduced Docker build times from **over 10 minutes to under 2 minutes** by implementing **multi-stage builds** and introducing layer caching using S3, reducing deployment time.
  - Built internal Python packages, including a modular S3 CDN plugin adopted across **20+ microservices** and reduced integration effort for new services.

  Software Development Intern — *Apr 2020 - Jul 2020*

  - Built a custom Ejabberd module in Erlang to track client-wise chat usage, improving observability and facilitating usage-based billing.

Skills

- **Languages & Technologies:** Python | Java | JavaScript | C/C++ | Bash | SQL | Django | FastAPI | Flask | Express.js | Node.js
- **Databases & Storage:** PostgreSQL | MySQL | MongoDB | Redis | ScyllaDB | S3 | RDS | Cassandra | Elasticsearch | Snowflake
- **Cloud & DevOps:** AWS | GCP | Azure | Docker | Apache Kafka | ELK | CI/CD | GitHub Actions | Ansible | Nomad
- **Tools & Platforms:** Linux | Git | Databricks

Projects and Open Source

- **Google Summer of Code:** Contributed to Django Software Foundation by implementing a Redis caching backend.
- **Outreachy @ Wikimedia:** Engineered a streamlined process to upload images from Google Drive to Wikimedia Commons.
- **Outreachy Mentor @ Wikimedia:** Mentored the development of an NSFW media classifier for Wikimedia Commons.
- **Write Right AI:** Developed an AI-powered browser extension allowing easy grammar correction and sentence rephrasing.