

Mirza Ishraq Yeahia, M.Sc.

AI & Backend Software Developer

San Diego, CA

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Professional Summary

AI & backend software developer focused on designing and deploying secure, scalable systems. Experienced building backend APIs, AI and agentic workflow pipelines, and internal productivity tools that improve operational efficiency and system reliability.

Core Competencies

- Backend API Design & Deployment
- Database Design & Data Modeling
- Identity & Access Control
- Asynchronous Task Processing
- AWS-Integrated Application Architecture
- GenAI Application Development

Technical Stack

- **Languages:** Python, Java, Bash
- **Backend Frameworks:** Django, FastAPI, Django REST Framework
- **Database:** SQL, MySQL, PostgreSQL
- **Cloud & Infrastructure:** AWS (IAM, EC2, S3, RDS, Lambda, Cloudwatch), Docker, Terraform
- **Generative AI & LLM Systems:** Claude Code, LangChain, Pinecone, Vertex AI

Experience

Software Programmer/Analyst - Data Analytics

San Diego Unified School District | April 2026 – Present | San Diego, CA

- Led design and development of an internal AI-enabled request management platform (Django, HTMX, PostgreSQL, Docker) for a district data analytics department, with role-based access for requestors, analysts, and administrators, plus audit trails, analytics dashboards, and calendar views.
- Built a streaming Claude-powered assistant on the Anthropic API with confirm-before-write tool use, letting staff and account-free public users submit, track, and update requests in natural language, protected by per-IP rate limiting and role-scoped toolsets.
- Implemented Microsoft Entra ID single sign-on with automatic role sync, validated file uploads, and email notifications; deployed with Docker Compose and Gunicorn on a self-hosted server with a CI pipeline.
- Led discovery, planning, and decommission tracking for migrating a legacy SQL Server reporting environment (RED) into a dbt and Prefect data warehouse, starting with the ELPAC assessment workflow and driving decisions across data engineering, IT, and program stakeholders.

- Facilitated recurring meetings with process owners to document tribal knowledge, retire unused objects, and scope which manual steps can be automated versus constrained by external state systems.

Software Engineer

Nanolmaging Services | Oct 2023 – July 2025 | San Diego, CA

- Designed and deployed GMP-compliant Django web tools for secure cryo-EM data upload and automation, integrating AWS S3, Celery, and Docker for reliable parallel processing.
- Reduced manual data handling and accelerated delivery times through automated ingestion and tracking pipelines.
- Enhanced and maintained NETTE, a Django-based sample tracking platform, improving workflow visibility for scientists and research teams.
- Collaborated with cross-functional research teams and scientists to define backend requirements and implement secure data ingestion and tracking workflows within NETTE.

Technology Support Specialist

San Diego State University ITS | Mar 2023 – Oct 2023 | San Diego, CA

- Rebuilt and optimized the SDSU Accessibility website, ensuring WCAG compliance and improved usability for over 30k campus users.
- Trained faculty and staff on Campus IT systems, LMS, DUO, and Google Workspace tools, reducing IT support tickets across department
- Documented workflows and assisted with accessibility audits to ensure digital compliance.
- Supported authentication and access workflows for campus systems including DUO MFA, LMS platforms, and Google Workspace.

Graduate Assistant (Web Applications)

San Diego State University ITS | Sep 2021 – Mar 2023 | San Diego, CA

- Developed a Django-based automation system for Canvas LMS enrollment and access management, enforcing role-based rules and reducing manual provisioning.
- Built a Python tool for Mediasite schedule automation, streamlining lecture recording workflows.
- Managed and optimized the my.SDSU website, implementing HTML/CSS/JS updates and ensuring uptime and improvement in user experience for thousands of student and faculty users.

Identity & Access Management Assistant

California State University, Northridge IT | Oct 2017 – Jan 2021 | Northridge, CA

- Automated identity lifecycle data processing for 10k+ user accounts using Python, Bash, and LDAP, supporting provisioning, deprovisioning, and access reconciliation while reducing processing time by 50%.
- Built an API-driven user provisioning system integrating Box and directory services to automate role-based access controls and eliminate repetitive manual onboarding.
- Deployed AWS Lambda scripts for serverless identity synchronization, ensuring consistency across distributed systems and improving entitlement accuracy.

DevOps Intern

META+Lab | Jul 2017 – Sep 2017 | Northridge, CA

- Supported infrastructure automation and DevOps training within a student innovation lab.
- Gained exposure to containerization, CI/CD pipelines, and collaborative agile workflows.

Education

M.Sc. in Big Data Analytics - San Diego State University

Fall 2021– Spring 2023

Research: Forecast and Predict Crypto Trend Using Artificial Neural Network and Sentiment Analysis

<https://tinyurl.com/774ntd6s>

B.Sc. in Computer I. Science - California State University, Northridge

Fall 2016 - Spring 2021

Activities: CSUN AI President (2019–2020) · Phi Lambda Nu Fraternity (Vice President, 2019)

Research: NetR and AttR: Two New Bioinformatic Tools to Integrate Diverse Datasets into Cytoscape Network and Attribute Files *Genes Journal*, 2019. DOI: [10.3390/genes10060423](https://doi.org/10.3390/genes10060423)