

# Samik Nayak

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## EDUCATION

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### Arizona State University – Barrett, The Honors College

Bachelor of Science in **Computer Science**

May 2026

Cumulative GPA: 3.95/4.00

## TECHNICAL SKILLS

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**Languages:** Java, JavaScript/TypeScript, C++, Python, SQL/NoSQL, React.js, Next.js, Node.js, Golang

**Technologies/Tools:** Git, DevOps(Docker, Kubernetes), Linux, AWS, Jira, Confluence, Postgres, MongoDB

## PROFESSIONAL EXPERIENCE

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### Samsung

*Software Engineering Intern*

May 2024-August 2024

- Developed a Python full stack web application and deployed it with a continuous delivery pipeline.
- Performed unit testing, end-to-end testing, and debugging on code during continuous integration and continuous delivery.
- Improved storage system efficiency by 170% by designing Python REST API and leveraging design patterns.
- Automated database storage device maintenance processes and reduced storage data pull times by 25%.
- Implemented streaming ETL using Apache Flink CDC to consolidate data from MS SQL databases to Oracle databases.
- Worked with stakeholders to determine storage project specifications and to demonstrate deliverables within deadlines.
- Solved complex problems to achieve project milestones in an organized and time-efficient manner, demonstrating strong communication, teamwork, and problem-solving skills in a fast-paced environment.

### University of Phoenix

*Software Engineering and Data Analytics Intern*

May 2023-August 2023

- Drove \$10 million in revenue growth through an increase in prospective student conversions.
- Analyzed business data and optimized ad campaigns using SEO trends and market data.
- Built Python data models to predict customer conversion trends from historical data and statistics.
- Utilized Python, SQL, and Microsoft Power BI to create and analyze data models from Google ad campaigns.
- Applied object-oriented design, data structures, and algorithms to manage and interpret large datasets.

## PROJECTS

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### LearnLens

September 2024

- AI Web application, that includes an LLM based interactive chatbot and quiz UI with AI-generated questions from a user's video content. Leveraged RAG to train the LMM on user-inputted learning videos and to generate assessment-based questions.
- Developed full-stack web application in React/Next.js using AWS S3 database/object store to connect to a PyTorch LLM

### Hospital Registration and Patient Management System

January 2024-May 2024

- Developed an automated patient intake system and integration into internal databases for Hospitals using Java and SQL.
- Collaborated in an Agile team to design front end UIs using Java-based libraries to improve user experiences.

### Client Management and Scheduling Software

Present

- Developing a full stack web application with client data management, appointment scheduling software, and customizable UI using Go, React, and PostgreSQL.
- Aiming to give small business owners improved communication with customers and easier control over client data.
- Collaborating and communicating with a small team of engineers to design and develop the project within deadlines.

## ADDITIONAL

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**Activities:** Indian American Students Association, Google Student Developers Club

**Interests:** Backend Development, Machine Learning, AI, Deep Learning, Web Development, Cloud Engineering

**Links:** <https://github.com/scnyk>, <https://www.linkedin.com/in/samik-nayak/>