

# Sathwik Alasyam

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## EDUCATION

### Arizona State University

Master of Science, Computer Science.

Bachelor of Science, Computer Science | GPA: 3.66

- Awards: New American University Scholarship
- Relevant Coursework: SQL & Database Management, Mobile IOS & Android App Development, Data Structures Algorithms, Intro Artificial Intelligence, Found of Machine Learning, Software Engineering, Operating Systems.
- Organizations: AI Society Club (Event Coordinator), Software Developer Association

Tempe, AZ

Expected May 2026

May 2025

## SKILLS

**Programming Languages:** Python, Java, C/C++, TypeScript, Flutter, Ruby, Swift, HTML, CSS, JavaScript

**Technologies:** React, Django, Spring Boot, Git, GitHub, PostgreSQL, Linux, Blockchain, Firebase

**Computer Science Concepts:** Object-oriented Design, Algorithm Design, Data Structures, Agile

## WORK EXPERIENCE

### Software Developer Intern | ViB Digital

August 2024 -Present

- Developed and launched **MVP** for both web and mobile applications using **Flutter** and **FlutterFlow**, integrating Firebase for real-time synchronization and user authentication, reducing development time by **30%**.
- Designed and implemented personalized media recommendations using **AI/ML** algorithms, improving engagement by **25%**, while focusing on efficient resource scheduling and data structures for scalable performance.
- Optimized cross-device synchronization speed by **40%**, leveraging multi-platform architecture for improved user UI/UX

### Software Development Intern | SolarSpell

May 2024 - Present

- Built responsive web applications using **React** and **Django**, improving performance by **25%** with a focus on scalable system design and data structure optimization.
- Engineered backend systems using **Python** and **TypeScript**, increasing functionality and operational efficiency by **15%** while employing object-oriented design and best practices in algorithm optimization.
- Developed a responsive user interface from scratch with **Ruby on Rails**, enhancing user interaction and satisfaction through a more intuitive design.

### Front End Web Developer | Attendance Management System

January 2024 - May 2024

- Automated attendance tracking by integrating **ASU ID card readers** with a custom-built frontend in **React** and **SASS**, improving efficiency by 40% through optimized **data structure** handling and real-time processing.
- Implemented **RESTful APIs** with **Spring Boot** for seamless backend integration, enhancing reliability by 20% through effective **resource management** and **data storage** techniques.
- Collaborated with stakeholders and UGTAs to ensure the system was optimized for scalability and efficient user interaction

## PROJECTS

### Intermediate Code Compiler

May 2024

- Developed a **C++** compiler that translates high-level code into an intermediate linked list, optimizing execution with advanced memory management techniques.
- Implemented efficient memory indexing for variable mapping and graph-based control flows, including conditional jumps and loops, improving runtime performance through effective use of **data structures** and **algorithms**.

### Sun Devil Account Manager (SDAM)

May 2024

- Created a dynamic hash table in **C++** to manage up to 800 unique bank accounts, incorporating collision handling through chaining and open addressing via linear probing.
- Enhanced account operations (insert, search, delete) using optimized data structures and algorithms, ensuring high memory efficiency and fast runtime performance.

### Dynamic Wave Animator

May 2024

- Developed a **JavaFX-based GUI** application that allows real-time control of wave animations with sliders and buttons for adjusting color, wavelength, amplitude, and speed.
- Optimized animation performance using **JavaFX's** KeyFrame and Timeline classes, implementing multithreading and efficient data structures for smooth user interaction.

## LEADERSHIP EXPERIENCE

### Technical Coordinator, AI SOCIETY CLUB

May 2024 - Present

- Spearheaded the organization of **hands-on AI workshops** focused on advanced topics like **machine learning algorithms**, **deep learning frameworks** (TensorFlow, PyTorch), and **model optimization**, providing members with practical, real-world AI experience.
- Led collaborative projects where participants developed and fine-tuned AI models, implementing **compute graph optimization** and **resource scheduling** techniques to enhance system efficiency.