Arjun Ranjan

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EDUCATION

Arizona State University   Expected Graduation: May 2026
Accelerated Bachelor and Masters of Science in Computer Science | 3.91GPA
Relevant Coursework: Data Structures, Object-Oriented Programming, Database Management, Compiler Design, Operating Systems, Software Engineering, Information Assurance, Theoretical CS

TECHNICAL SKILLS

Languages: <u>Intermediate</u> - C/C++(2yrs), Java(2yrs), Python(2yrs), Assembly(1yrs) <u>Beginner</u> - ReactJS, NodeJS, HTML, CSS, JavaScript, MATLAB, SwiftUI, R
Developer Tools: Git, Jupyter Notebook, Unix/Linux, SSH, Kernel Development, Firebase, Bash, Taiga, IOS

EXPERIENCE

Software Engineer   August 2024 – Present
tCognition Inc. - ASU Capstone   *Tempe, AZ*
- Developing XSEED.ai modules using React with Typescript, MaterialUI, and Formilk for state management, ensuring robust front-end functionality
- Implementing backend microservices in Java, integrating PostgreSQL, MongoDB and Kafka for messaging and data management
- Utilizing AWS for cloud provisioning and Docker for deployment, streamlining developement workflows with Terraform and Kafka Connect

Software Engineering Fellow   July 2024 – September 2024
Headstarter   *Remote*
- Built 5+ AI apps using ReactJS, NextJS, OpenAI,AWS, StripeAPI with 98% accuracy
- Developed projects from design to deployment leading 4+ engineering fellows
- Coached by Amazon, Bloomberg, and Capital One engineers on Agile, CI/CD, Git and microservice patterns

PROJECTS

AI Flashcards | *React, Next, Firebase, OpenAI API, StripeAPI*   September 2024
- Developed a full-stack SaaS application using Next.JS, React, and Firebase, enabling users to create, manage, and study flashcards with AI-powered generation
- Integrated OpenAI API to implement AI-driven flashcard generation, enhanching user learning experiences by automatically generating content from text inputs using RAG
- Implemented Stripe for subscription-based payments, enabling a seamless Pro plan checkout process with secure transaction handling

EffortLogger | *Java, SQL, JavaFX*   May 2023
- Developed an application as part of SWE course to track and log project development using Agile methods
- Designed and Developed the backend using SQLite
- Spearheaded a team of 3 developers in project development, part of the backend team

Banking Management | *Java*   July 2022
- Developed a Banking Management application using Java
- Designed a fully persistent system using Hashing and JSON for data management
- Spearheaded a team of 2 developers managing work flow and developement

ACHIEVEMENTS

New American University Scholar: Attained $15,500 scholarship per year for academic merit (Jan 2022-Present)
Dean's List: Earned the Dean's List award for consistent demonstration of academic excellence (Jan 2022-Present)
Accelerated Master's Program: Handpicked for the Accelerated Master's Program enabling completion on both Undergraduate and Master's in 4.5 years