Naimish Maniya

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EDUCATION

Arizona State University — May 2026
Bachelor of Science in Computer Science | Minor in Business
Related Coursework: Software Engineering, Operating Systems, Principles of Programming Languages, Data Structures & Algorithms, Object-Oriented Programming, Human Computer Interaction

EXPERIENCE

Software Engineer Intern — May 2025 – Aug 2025
University Of Phoenix — *Phoenix, AZ*
- Developed scalable, reusable front end components using JavaScript, Next.js, and Adobe Experience Manager (AEM) with HTL and Sling Models, enabling content authors to customize layouts reducing developer support requests by **60%**.
- Modernized legacy AEM components by introducing authoring via custom dialogs and client side libraries, cutting render blocking scripts and refining Lighthouse performance scores by **25%**.
- Collaborated with design and SEO teams to optimize HTML structure, metadata, and accessibility features, contributing to a **40%** increase in ADA audit scores and a **20%** boost in organic search visibility.

Software Engineer Intern — April 2022 – July 2022
VK Diamonds — *Mumbai, India*
- Created and implemented CMS pages to centralize diamond cataloging, enabling easier updates and improved visibility for sales and quality assurance teams by **20%**.
- Initiated automation of routine tasks deploying Python scripts, saving **10+** hours per week in manual diamond quality assessment logging.
- Accelerated development of a reporting tool tracking diamond production metrics, facilitating better decision making for supply chain management and minimizing production delays by **15%**.

PROJECTS

Programming Language Compiler | *C++, CFG, Lexical Analysis* — May 2025
- Constructed and validated a recursive descent parser and semantic analyzer for a custom polynomial language, executing **30+** programs with nested expressions, scoped variables, and runtime input/output.
- Built a CFG compiler computing nullable, FIRST/FOLLOW sets and applying grammar transformations, increasing parsing efficiency and coverage by **100%**.
- Generated intermediate code by compiling control flow logic into **50+** linked instruction nodes, executed using a custom interpreter.

Visualizing Fabric Of Ohio City | *Java, Spring Boot, React, PostgreSQL, D3.js* — December 2024
- Engineered a fullstack platform to analyze Ohio city's demographic and business trends, handling **22GB+** data efficiently.
- Reduced database query time from **15s** to **800ms** by optimizing PostgreSQL queries and backend API logic with Spring Boot.
- Crafted dashboards using React and D3.js to deliver real time visualizations of citizen and business distributions.

Operating Systems Development | *C, Linux* — May 2025
- Designed a custom Linux kernel with system calls, kernel modules, memory allocators, and thread schedulers, cutting boot and test time by ~**50%** in a virtual Ubuntu environment.
- Created semaphore based producer consumer threads supporting **10–20** concurrent processes with deadlock free execution.
- Integrated user kernel communication via IOCTL to support virtual memory ops and block level USB access with accurate state tracking.

Ask An APL: AI Powered Bot for Agile Support | *Python, Flask, GPT-API, RAG, LangChain* — July 2025
- Developed an AI agent using Flask and GPT-4 to automate responses to **120+** Agile People Leader FAQs, improving team efficiency and decreasing manual support overhead.
- Architected a secure, scalable system leveraging a manually curated knowledge base, with future extensibility for sensitive query detection and escalation logic.
- Delivered a functional product in under **72** hours with prompt fallback logic and configurable Q&A handling, earning First Place Award at Intern Style Hackathon 2025.

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, SQL, C/C++
Technologies: AEM, React.js, Next.js, Node.js, Tailwind CSS, Spring Boot, Flask
Developer Tools: Git, AWS, Docker, Jira, MATLAB, Visual Studio Code, IntelliJ