# Naimish Maniya

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## EDUCATION

**Arizona State University,** Tempe, AZ          **Expected Graduation - May 2026**
Bachelor of Science in Computer Science | Minor in Business
Related Courses: Software Engineering, Operating Systems, Principles of Programming Languages, Data Structures & Algorithms, Object-Oriented Programming, Human Computer Interaction.

## WORK EXPERIENCE

**Software Engineer Intern**          **May 2025 – Aug 2025**
*University Of Phoenix*
- 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*
- Created and implemented CMS pages to centralize diamond cataloging, enabling easier updates and enhanced 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*
- 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*
- Engineered a full-stack 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*
- 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.

## LEADERSHIP

**Ask-An-APL: AI-Powered Bot for Agile Support** | *Python, Flask, GPT-API, RAG, LangChain*
- 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 Runner-Up Award at Intern Style Hackathon 2025.

## SKILLS

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|---|---|
| **Programming Languages:** | Python, Java, C/C++, JavaScript, SQL. |
| **Tools and Technologies:** | AEM, React.js, Node.js, Express.js, Tailwind CSS, Spring Boot, Flask, Git, Jira. |
| **Systems Engineering:** | Windows, MacOS, Linux, Amazon Web Services, Docker. |