

Matthew Castle

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PROFESSIONAL SUMMARY

Software engineer with 4.5 years of experience in cybersecurity, distributed systems, and backend development. Strong in first-principles problem solving, clear communication, and sound judgment. Seeking to contribute to meaningful work on a high-performing team.

WORK HISTORY

Software Engineer

10/2021 – 01/2026

Trend Micro — Austin, TX

- Maintained proper functioning of Trend Micro ZTSA infrastructure
- Maintained ETL pipelines and databases in the ZTSA backend, resolving data integrity and performance issues
- Implemented the backend of several new features in ZTSA
- Diagnosed and resolved complex customer issues by analyzing logs and tracing failures across distributed systems
- Debugged distributed systems handling large volumes of network traffic, ensuring high performance and reliability
- Designed and implemented RESTful APIs for internal services and customer-facing product features
- Designed and maintained cloud infrastructure supporting ZTSA

Research & Development Intern

06/2021 – 08/2021

Trend Micro — Austin, TX

- Collaborated on a four-person team to build a web app that dynamically visualizes AWS account assets and their relationships as an interactive graph in the browser

PROJECTS

- Built a Python library for efficient numerical algorithms, mostly dealing with matrix operations and finding numerical solutions to differential equations
- Built an empire-building strategy game in Python using PyQt6, with an interactive world map and simulated international trade and wars
- Helped build an AI interview platform that generates interview questions and simulates a job interview based on a resume and job description

SKILLS

Programming Languages: Python, Go, Java, JavaScript, SQL, C, R

Systems & Tools: Linux, Git, AWS, Docker, Kubernetes, Azure, HTTP, Claude Code

Databases: DynamoDB, MySQL, JDBC, Cosmos DB, Aurora DB

Data & Security: Math, Statistics, Data Analysis, Networking Fundamentals, Network Security

Communication: Technical Writing, Presenting Technical Material

EDUCATION

Bachelor of Arts, Mathematics

05/2021

University of Oklahoma — Norman, OK

- Minors in Computer Science and Physics
- GPA: 3.83

AWARDS

- 3-time Texas High School State Champion in Mathematics
- National Merit Scholar