

Advait Chirmule

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EDUCATION

Arizona State University <i>Master's of Science in Computer Science, GPA: 3.80/4</i>	Tempe, AZ Aug 2023 – May 2025
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EXPERIENCE

Full Stack Developer <i>Trekka AI</i>	Jan 2026 – Present Tempe, AZ
Full Stack AI Application Intern <i>Cognia Security</i>	May 2025 – Nov 2025 Tempe, AZ

Full Stack Developer | *Trekka AI* | Jan 2026 – Present
• Built a personal finance dashboard in React + TypeScript that aggregates bank accounts, investments, and liabilities using Plaid.
• Implemented secure data handling with Supabase, encrypting access tokens and creating anonymized, shareable financial reports.
• Processed and visualized financial data to surface insights like net worth, cash flow trends, and asset allocation.
• Added an AI financial assistant with Groq to help users explore their finances and plan investments.

Full Stack AI Application Intern | *Cognia Security* | May 2025 – Nov 2025
• Built a Spring Boot based security dashboard for a startup, for clients to continuously assess and fix vulnerabilities.
• Implemented a vulnerability scanning pipeline by integrating Azure Defender and OWASP security tools, and generating findings every few hours.
• Deployed client applications to Azure using Terraform, provisioning cloud resources and resource groups, and simulating attack paths for security assessment.
• Improved development velocity by 40% using Cursor AI and Agile workflows in Linear.

PROJECTS

Resume Customizer <i>Next.js, TypeScript, Tailwind CSS, Postgres</i>	Dec 2025 – Jan 2026
• Developed a web app that customizes Resumes on Overleaf with just a few button clicks, in mere seconds. • Developed a lightweight frontend using Next.js, TypeScript, and Tailwind CSS for fast load times and clean UI. • Implemented Supabase authentication and database to manage user accounts and resume versions and variants.	
Vocab Master <i>ASP.NET, C#, JavaScript, AJAX, Kotlin, XML, Firebase</i>	Jan 2025 – Aug 2025
• Built a cross-platform GRE study app serving 100+ users, enabling vocab practice and a multiplayer word game. • Developed web (ASP.NET MVC) and Android versions (Android Studio) connected via Firebase RESTful APIs for secure login and game room management. • Created a custom algorithm to handle network lag and maintain multiplayer game sync. • Added SQL Server caching for offline functionality and to reduce latency by 60%.	
AWS-Powered Application for Image Recognition <i>Java, Linux, Algorithms, Git</i>	Aug 2024 – Dec 2024
• Developed an application that identifies famous personalities from videos. • Configured an AWS EC2 instance to split videos using ffmpeg, and run through a deep learning recognition model. • Designed a inference layer using Amazon Machine Images (AMI), auto-scaling dynamically from 0 to 20 instances based on workload. Coupled with Amazon SQS queues, achieved a throughput of 500 requests in 240 seconds.	

PUBLICATIONS

Jailbreaking Proprietary Large Language Models <i>Arizona State University</i>	ACL ARR 2024 Feb
• Studied cryptographic ways to encode prompts to jailbreak, automated GPT API calls to speed up work by 50%. • Analyzed results using Power BI, achieving up to 60% jailbreaking success across multiple large language models	

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, C#, C++, XML

Frontend: React, HTML, CSS, RESTful API, HCI

Backend: .NET, MySQL, Postgres, AWS, Docker, Kubernetes

Others: Agile, Github, AI/ML, Problem Solving, Teamwork