

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 AI Application Intern <i>Cognia Security</i>	May 2025 – Nov 2025 Tempe, AZ
<ul style="list-style-type: none">Built a security dashboard for a startup to help clients continuously assess and fix vulnerabilities.Developed an end-to-end Spring Boot pipeline to extract asset information from Azure, normalize, enhance and store in MongoDB, with raw data archived in S3.Automated vulnerability scanning across Azure by integrating Azure Defender and OWASP tools into a CI/CD pipeline using Terraform, and generating security reports required.Managed agile workflows in Linear and used Cursor AI to enhancing coding productivity by 40%.	

Research Aide <i>Arizona State University</i>	Aug 2024 – May 2025 Tempe, AZ
<ul style="list-style-type: none">Studied the effects of hashtags on engagement and toxicity in social media through large-scale user studies.Led experiments with 2,000+ participants, automating data collection and validation workflows with Selenium.Processed 700K+ posts using Python (Pandas, NumPy), performed sentiment analysis, and visualized statistical analysis using PowerBI.Applied Reinforcement Learning to optimize hashtag strategies, reducing toxic comments by 20%.	

PROJECTS

Vocab Master <i>ASP.NET, C#, JavaScript, AJAX, Kotlin, XML, Firebase</i>	Jan 2025 – Aug 2025
<ul style="list-style-type: none">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%.	
Minibase Software Modification <i>Java, Linux, Algorithms, Git</i>	Jan 2024 – May 2024
<ul style="list-style-type: none">Extended Minibase (Java DBMS on Linux) with column-store support and bitmap indexes, for efficient querying.Designed a custom compression algorithm using Run-Length Encoding (RLE) and Bit Stuffing, reducing storage footprint and achieving 15% faster performance than standard RLE.Validated new features with CRUD operations and joins, successfully handling 100K rows in under 30 seconds.	
Taiga API Extraction <i>React, FastAPI, Recharts, Node.js, Docker</i>	Jan 2024 – May 2024
<ul style="list-style-type: none">Developed a Taiga project analytics tool delivering project analysis metrics to improve sprint efficiency.Built with React (frontend), Node.js middleware, and a FastAPI backend (with OAuth 2.0 for login)Achieved 80% faster performance with Redis caching and deployed scalable, containerized services using Docker.Collaborated in Agile workflows, including sprint planning, code reviews, and daily standups, improving velocity.	

PUBLICATIONS

Jailbreaking Proprietary Large Language Models <i>Arizona State University</i>	ACL ARR 2024 Feb
<ul style="list-style-type: none">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