ATISHAY DIKSHIT

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EDUCATION

University of Southern California — Los Angeles, California
Bachelor of Science in Economics and Data Science, Minor in Cybersecurity — May 2025

- **Teaching Assistant** for *Accelerated Programming in Python (F23-S24)*
- **Director of Curriculum** for *Association of Innovative Marketing Consulting (AIM)*

SKILLS

Relevant Coursework: Software Engineering, Algorithms, Artificial Intelligence, Data Structures, Enterprise Network Design, Linear Algebra, Machine Learning, Econometrics, Natural Language Processing, Ethical Hacking, Computer Systems, OWASP Top 10
Technical: C++, Python, HTML, Java, HTML, CSS, PHP, R, SQL, Hadoop, Spark, Hive, NoSQL, MongoDB, AWS, Pandas, NumPy, TensorFlow, PyTorch, scikit-learn, Predictive Modeling, Penetration Testing, Kali Linux, Tableau, KAPE, OpenCV, Mediapipe

WORK EXPERIENCE

Ernst & Young — Singapore
Cybersecurity Intern — May 2024-August 2024

- **Secured two international ransomware investigations** as part of the Incident Response team, uncovering a **30% data exposure** through Axiom Magnet and X-Ways analysis; conducted in-depth **bash scripting, metadata, and file analysis** to reconstruct attacker activity, delivering executive-ready reports that enabled targeted threat containment and bolstered future breach defenses.
- **Collaborated** with **two cross-functional teams** to investigate PII from leaked documents by crafting complex SQL queries to trace sensitive data **across enterprise networks**, identifying critical exposure points and deploying advanced encryption and data protection measures that **reduced potential data loss by 70%,** securing over **100,000 sensitive records.**
- **Developed advanced Rubber Ducky payloads** coded in **DuckyScript** to simulate complex cyber-attack scenarios, including keystroke reflection, OS detection, and remote access—delivered live demonstrations to **over 110 stakeholders**.
- **Engagement** directly contributed to **increasing client cybersecurity resilience by 20%**, significantly **reducing data exposure** risk and **enhancing client confidence** in incident response protocols

Ernst & Young — Singapore
Cybersecurity Consulting Intern — May 2023-August 2023

- **Configured a Python-based Nmap compiler**, leveraging **Pandas** and **Scapy** to process **complex Nmap scan files**; categorizing open ports, services, IP addresses, and protocols to assess vulnerabilities based on scan parameters, generating CSV reports **that improved analysis efficiency by 40%** and provided clear, actionable insights for cybersecurity teams
- **Led weekly client status updates** on vulnerability findings, leveraging Alteryx to automate data processing, filtering, and enrichment of Nmap scan outputs, and integrating **PowerBI visualizations** to highlight high-risk ports, protocols, and IP addresses, **expediting response times by 15%** to security threats.
- Engineered proactive **data protection solutions across fifteen environments, directly contributing to the system** integrity and strengthening cyber resilience.

Can Mah! — Singapore
Software Engineer (Co-founder) — January 2020-December 2020

- Engineered an **automated, real-time digital grocery stock management platform** using **Python, HTML, PHP**, and **CSS**
- Implemented a **Firebase database** to manage high-frequency transactions, processing over **500 daily updates** and synchronizing user orders with digital stock levels to achieve **operational efficiency** and **real-time reliability.**
- **Collaborated** with the local **startup** GoodHood.sg to deploy Can Mah! as a **web API** integrated into their platform, extending COVID-19 risk mitigation services **to over 1,000 residents** with **real-time** access to essential resources
- Received **$5,000** in grants from **Oscar Temasek** and a **further $25,000** from various innovation **grant competitions**

PROJECTS

AiFRED: An **educational analytics** platform that leverages **OpenCV** + Mediapipe **face recognition** embeddings, **MongoDB** for data persistence**, real-time hand-raise detection**, AI for question classification and **STT** processing, implementing a **student engagement tracking** system with **multi-threaded audio processing** and **real-time visualization capabilities**.
iWonder: Engineered multi-threaded**,** real-time **sentiment analysis iOS** platform leveraging **FastAPI** with **with asyncpraw** and **VADER NLP** to process **500+ Reddit comments per query,** integrated with a **SwiftUI** frontend for dynamic data **visualization,** achieving an **85% accuracy** rate**.**
Phishing Detection AI: Built an **LSTM-based phishing detection** model and deployed as a **Flask API**, utilizing **natural language processing (NLP**) and **TensorFlow** for sequence modeling to **classify email content** in real-time