Alan Turing

[Email] | [Phone] | [LinkedIn Profile] | [GitHub Profile] | [Portfolio (if applicable)]

EDUCATION

University of North Carolina at Chapel Hill | Chapel Hill, NC **May 2027**
Master of Science in Computer Science

- Relevant Coursework: Machine Learning, Distributed Systems, Algorithms, Cloud Computing
- Research: Developing scalable deep learning models for real-time fraud detection in financial transactions (advised by Dr. [Advisor's Name])
- Thesis (if applicable): **"Enhancing Anomaly Detection in Large-Scale Systems Using AI"**

North Carolina State University | Raleigh, NC **May 2022**
Bachelor of Science in Computer Science and Environmental Science
Honors: Dean's List (all semesters), Magna cum Laude

INDUSTRY EXPERIENCE

IBM *– Research Triangle Park, NC*
Software Engineer **June 2022 – July 2024**

- Designed a cumulative aggregated dataset hosted in BigQuery and GCS to unify multiple data pipelines for podcast consumption metadata, centralizing data sources and reducing computational overhead for various metrics
- Implemented the dataset using Scala and Apache Beam APIs, achieving a **60%** compression versus the raw metadata source and enabling faster, more efficient queries
- Analyzed **hundreds** of trending, book-based playlists and conducted A/B tests to validate targeted audiobook campaigns, uncovering avenues for audience growth

Fidelity Investments – Durham, NC
Software Engineer Intern **May 2021 – August 2021**

- Engineered a **React and Node.js dashboard** for real-time stock analysis, improving data refresh rates by 50%.
- Created RESTful APIs using **Java Spring Boot** to integrate investment analytics with customer dashboards
- Developed SQL queries to optimize **financial data retrieval**, reducing query execution time by 35%

RESEARCH EXPERIENCE

UNC-Chapel Hill – Department of Computer Science (Cybersecurity Lab)
Graduate Research Assistant **January 2025 – Present**

- Investigate the impact of **adversarial attacks on neural networks**, proposing a **defensive training approach** that improved model robustness by **18%**
- Conduct **data preprocessing and feature engineering** on large-scale cybersecurity datasets using **Spark and Pandas**
- Presented findings at the **IEEE Workshop on Machine Learning for Security**

TECHNICAL SKILLS

Languages: Python, Java, C++, SQL, JavaScript
Frameworks/Libraries: React, Node.js, TensorFlow, Pandas
Tools: Docker, Kubernetes, Git, AWS, PostgreSQL
Methodologies: Agile, Test-Driven Development, CI/CD