Binh An Pham

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Education

Carnegie Mellon University ▪ Pittsburgh, Pennsylvania **Exp. May 2023**

M.S. in Electrical & Computer Engineering

West Texas A&M University ▪ Canyon, Texas **May 2021**

B.S. in Computer Science - Software Engineering, with Honors **GPA 3.56/4.0**

Work Experience

Visa **Highlands Ranch, Colorado**

Software Engineer Intern **May 2020 – July 2020**

- **Worked** with Visa Next-G Operation Tech Solution Team on Fault Identification Tool (FIT)
- **Aggregated** transaction response codes dataset from Apache Kafka logs for FIT NEXT
- **Data pipelined** the extraction of server performance metrics from APM (Application Performance Monitoring) server
- **Provided** Components Topology Data of FIT system to Event Management System to improve the correlation between Netcool Alerts
- **Utilized RESTful API**, **Java**, **MySQL**, and **TigerGraph**

West Texas A&M University **Canyon, Texas**

Undergraduate Researcher **January 2019 – May 2020**

- **Implemented** a machine learning model to detect SQL Injection Attacks which yielded 90%+ classification accuracy (**Scikit-learn**)
- **Analyzed** malicious and benign SQL queries from multiple sources and **processed** them into tabular structured data (**Python**)
- **Utilized Python, Scikit-learn** and **pandas**

Technical Projects

- **VOCODER** (May 2021). Leading an effort to propose a solution to support on-device programming by voice for the **SCORE 2021 Contest by the International Conference on Software Engineering (ICSE)**. **Python, Tkinter**
- **An Experimental setup for Detecting SQLi Attacks using Machine Learning Algorithms** (April 2020). Accepted into the 24th Journal of The Colloquium for Information Systems Security Education (CISSE). **Python, Scikit-learn, pandas**
- **Memory Game** (December 2019). An interactive web game where players memorize the positions of the cards while trying to flip all matched pairs. **React.js, JavaScript, CSS**
- **Blackjack** (April 2018). A blackjack card game built utilizing OOP programming paradigm, allowing player to play against a bot dealer. **Python, IDLE, Git**