Richard Huynh

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EDUCATION

Texas A&M University, *College Station* Graduating Class of 2026
B.S. Computer Science (Honors), Minors in Statistics & Mathematics GPA: 3.901

Relevant Courseworks: Data Structures and Algorithms, Computational Data Science, Discrete Structures for Computing, Computer Organization, Programming Languages, Linear Algebra, Principles of Statistics I

TECHNICAL SKILLS

Programming/Scripting Skills: C++, C, Python, JavaScript, Scheme, SQL, MATLAB, R, Linux, PowerShell, Java
Frameworks/Libraries/Tools: Git, Docker, Expo, React, MatPlotLibs, Pandas, NumPy, Sklearn, RTL design

PROJECTS & EXPERIENCES

Data Science/Analytics Internship - *Ticketmasters, Live Nations Entertainment* Summer 2024 - Fall 2024
- Developed a comprehensive data analytics pipeline to classify events and evaluate pricing strategies using Spark and Hive SQL, facilitating data-driven decision making for event management
- Integrated and filtered datasets with Apache Spark and SQL and Python Pandas, feature engineering key metrics to provide insights, and implemented clustering techniques (K-Means) and machine learning algorithms (Random Forest)

ADSC x General Motors Project - *Aggie Data Science Club* Fall 2023 - Spring 2024
- Develop insights corresponding to General Motor's goal of "zero-zero-zero" using travel data conducted by the Federal Highway Administration of personal travel.
- Learn and utilize Machine Learning with SkLearn, and use NumPy, Pandas, MatPlotLibs, and Seaborn to visualize and determine limiting factors towards purchasing electric vehicles and to predict chances and factors leading to purchases.

Tech Stocks Future Predictions - *Computational Data Science* Spring 2024
- Utilize a linear regression model and a neural network LSTM model with the Root Mean Square Error to measure errors between predicted and actual stock prices.
- Develop a data analysis workflow, using Git and Docker to contain reproducible components, and using Numpy, Pandas, and Seaborn during data collection and preprocessing to prepare for algorithmic modeling.

64-Bit Computer Architecture Project - *Computer Organization* Spring 2024
- Crafted and deployed RTL design and Assembly to design a 64 bit CPU resembling the x86-64 architecture.
- Integrated pivotal elements, such as registers, arithmetic logic units, and control logic to ensure functionality and performance.

Tally Project - *Aggie Coding Club* Fall 2022 - Spring 2023
- Developed a mobile app to aid in student lives, featuring a navigation bar, todo lists, questboards, and a leaderboard
- Utilized React, Expo, and Git to enhance User interface and version control in correspondence with other developers and users

VorTX Robotics 3735 - *First Robotics Competition* Fall 2020 - Spring 2022
- Communicated with other FRC Robotics teams and the community to outreach and organize events sponsoring education and experience with Solidworks CAD, machine work, engineering, software, and communication.
- Aided the design of FRC Robots with the usage of Java and Git to utilize robotic motors for drivetrain, intake systems, climbing systems, and autonomous functions.

RESEARCH

Math Internal Assessment, *Research: International Baccalaureate Program* Fall 2021 - Spring 2022
- Formulated a research proposal of the Newton-Raphson Method, Secant Method, and others to determine roots and solutions.
- Analyze speed and efficiency of these methods used by computers, and acquire knowledge of runtime functions of the methods, displaying and comparing information in Big-O notation to represent capabilities.

LEADERSHIP & ACTIVITIES

Big Event - *Group Leader and Member* Spring 2023 - Present
- Collaborated with a diverse team of volunteers to meet quality standards, project deadlines and goals, and satisfaction of recipients during construction of flowerbeds and gardening for communities in need
- Cultivated project management, teamwork, communication, ethics, and problem solving abilities in a first hand environment

I-Won Korean BBQ & Hot Pot - *Server* Winter 2023 - Present
- Collaborate with kitchen staff and peers to ensure accurate preparation and presentation of dishes, while skillfully maintaining multiple tables, balance food and beverage services in a timely order.

Mathnasium - *Student Instructor* Winter 2021 - Summer 2022
- Utilized teaching, learning, and communication skills to challenge student interests and abilities to encourage intellectual curiosity and confidence of students from grades K-12.

ADDITIONAL INFORMATION

Awards: National AP Scholar, FRC Quality Production Award, FRC Chairman's Award, Best Community Team Award, International Baccalaureate Diploma
Languages: Professional oral and written communication in English, Vietnamese, and Spanish