Shaw Young

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EDUCATION

Virginia Tech | Bachelors in Computer Science & Business Information Technology Exp. May 2024

- GPA: 3.77 | Dean's List, M.W. and M.F. Riddick, Jr. Scholarship Awardee, Third place at VT's ethics bowl, IBM Accelerate
- Coursework: Software Design & Data Structures, Computer Organization, Discrete Math, Introduction to Linear Algebra, Foundations of Physics, Foundations of Engineering 1 & 2

Thomas Jefferson High School For Science and Technology Aug. 2017 - Jun. 2021

- College Board Recognition Program Awardee, Mobile App Development, Web App Development, Computer Vision 1 & 2, Robotics, Design & Technology

EXPERIENCE

Software Engineer at FTC Robotics Team Shockwave | Chantilly, VA Sept. 2018 - Feb. 2020

- Utilized data structures in Java to program the controlled movement of the robot. Designed robot mechanisms in Fusion360 for intake and arm movement. Implemented autonomous movement with OpenCV software. Won 1st place Think Award, 2nd place INSPIRE Award (2019), 1st place team at States (2019), 1st place Connect Award, 2nd place Think Award, 3rd place INSPIRE Award (2020).

Vice President at the Art Club at Virginia Tech | Blacksburg, VA Sept. 2021 - Present

- Plan and lead club activities, communicate with art department advisor, communicate with club members, manage club finances. Established collaborations with the fashion club & HackVT and significantly increased club enrollment.

Math Instructor at Fairfax Collegiate | McLean, VA Jul. - Aug. 2021

- Taught high-school-level Geometry, pre-algebra, and filmmaking. Taught geometry trigonometry and analytic geometry. Instructed pre-algebra students in decimals, fractions, pre-algebra, and basic geometry. Guided filmmaking students in using iMovie software and a professional video camera in making their own movie. Communicated student progress with parents & collaborated with co-teachers.

PROJECTS

JPMorgan & Chase Data for Good Hackathon: Data Farmers Apr. 2022

- Finished first out of the 120 students selected to participate
- Used XGBoost to define most influential features for malnourishment in developing countries, adjusted quantity of features to simulate effect of investment on social good, quantified by malnourishment
- Used NLP to relate emission data from agricultural product categories with specific agricultural products, created historical models of effect of international and domestic expenditures on emission levels

HackDuke: EthInvest Oct. 2021

- Generated investment portfolios based on performance and ESG index
- Built a web scraper that collected the ESG indices of the S&P 500 and used linear regression to calculate key performance indicators (KPIs) of their respective equities.

SKILLS

Software Design, Data Structures, Machine Learning, Windows, Linux, x86 architecture, Java, C++, C, python, pandas, numpy, XGBoost, SQL, Git, Matlab, Chinese (fluent), Collaboration, Leadership, Microsoft Office