

Cristian Valencia

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EDUCATION

Virginia Polytechnic Institute and State University

Bachelor of Science in Computer Science, GPA: 3.22
Dean's List w/ Distinction 2024

Blacksburg, VA

Expected Grad: Dec 2024

RELEVANT COURSEWORK

General: Data Structures, Computer Systems, Computer Architecture, Algorithm Analysis, Machine Learning

Development: Mobile Development, Intermediate Software Engineering, Database Systems, Docker, GUI Development

PROJECTS

Wrapped To Go | *Python, Glide, Jupyter Notebook, numpy*

September 2023

- Developed an app with a team of 3, using Spotify API to analyze user music data and visualize it through Glide.
- Automated the extraction and transformation of large datasets, leveraging the Pandas library to curate insightful data visualizations reflecting users' listening statistics.
- Integrated the Google Sheets API to facilitate efficient data storage and retrieval.

VT Marketplace | *MongoDB, Express.js, React, Node.js*

- Implemented a scalable backend architecture capable of handling many users and product listings, with optimized MongoDB indexing for efficient data retrieval.
- Engineered advanced search functionality with multiple filters, handling different search parameters including location, category, and price ranges.

EXPERIENCE

Financial Coordinator

June 2020 – December 2022

SOSi

Reston, VA

- Orchestrated the daily processing of financial data for approximately 500 interpreters
- Worked on a custom PDF scraper, improving data processing amount by 35%

Technical Lead, TA Assignment Project

Present

Virginia Tech CS Department

Blacksburg, VA

- Leading the development of a TA assignment platform using the MERN stack (MySQL, Express, React, Node.js), integrating course data and TA requirements for dynamic and responsive matching.
- Developing a dynamic survey tool with advanced filtering to match Graduate and Undergraduate TAs (GTAs/UTAs) to courses based on skill levels, class requirements, and availability

LEADERSHIP/EXTRACURRICULAR

Latin Link Executive Board | *Webmaster*

May 2022 - May 2023

- Developed a robust website for the largest LatinX organization on campus (350 members).
- Demonstrated leadership and teamwork by coordinating with a board of 14, planning and executing events of varying scale

VTHacks

September 2023

- Engaged in VTHacks, applying my knowledge creatively to develop 'Wrapped To Go' over 24 hours, and showcasing adaptability in a high-pressure, competitive environment

Society of Hispanic Professional Engineers

October 2023

- Attended this year's National Convention in Salt Lake City and engaged in numerous workshops throughout the week

Colorstack VT

Spring 2024

TECHNICAL SKILLS

Languages & Tools: Java, Python, C, Kotlin, SQL, HTML/CSS, JavaScript, Git, GitLab, Docker, Linux, Typescript

Frameworks/Libraries: React, Node.js, JUnit, MongoDB, Jupyter Notebook, Mocha, Scikit-Learn, Pytorch, TensorFlow, Keras