James Boyden Tanner

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Education

University of Virginia, School of Engineering and Applied Science (3.75 GPA), Charlottesville, VA

B.S. in Computer Science, B.A. in Economics, Dean's list — Anticipated May 2025

The William Penn Charter School, Philadelphia, PA

High school diploma, eight semesters academic high honors, Cum Laude Society — June 2021

Relevant Internship Experience

Software Engineering Intern at Perpay, Philadelphia PA — May - August 2023
- Contributed to a full-stack Django and React fintech web application serving over seven million users
- Engineered async tasks, online marketplace, payment processing logic, admin tools, frontend components
- Worked in-person with a growing team; Onboarded three new team members

Software Engineering Intern at The Brandtech Group, Philadelphia PA — May - August 2022
- Implemented facial recognition software utilizing AI to enhance the Brandtech Visual Intelligence platform
- Collaborated in person and online with international team of developers utilizing Agile methodology
- Developed Flask web application and Google Cloud Functions

Technical Projects and Course Work

Technical Coding Projects: Fantasy football draft optimization algorithm, Python — 2020, 2022
- Developed an elastic-net regression algorithm to rank players in a fantasy football draft

Numerai machine learning predictive model, Python — 2022
- Created a machine-learning model from obfuscated stock market data
- Competed in the Numerai data science tournament

Fall detection cane with notification system, Python — 2021
- Constructed a cane with embedded accelerometer and force sensors
- Led a team to program fall detection and SMS notification system

Relevant Courses: CS 3240 - Advanced Software Development — 2023
- Learned to collaboratively design, test, and deploy a large scale, full stack in a team of five
- Built with Django, Heroku, Bootstrap, React, PostgreSQL, and GitHub Actions CI

CS 3130 - Computer Systems and Organization — 2023
- Studied computer architecture and hardware design at various levels of abstraction
- Worked in low level programming languages such as C and Assembly

CS 3100 - Data Structures and Algorithms — 2023
- Learned advanced data structures, program analysis, and object oriented programming in Java and Python
- Executed weekly programming tasks to enhance technical skills and apply advanced graph algorithms

Technical and Professional Skills

Proficient in Python, Java, C, JavaScript, Dart, SQL, HTML, CSS; Experience with Linux, Django, Flask, React, Kubernetes, Docker, PostgreSQL, Flutter, Bootstrap, Git, AWS, GCP. Familiar with Excel, Google Sheets, Matlab, Simulink; Strong communication and leadership skills.

Other Work Experience

Head Lifeguard, North Hills Country Club, Oreland, PA — Summer 2021

Lifeguard, North Hills Country Club, Oreland, PA — Summers 2019 - 2020
- Promoted to Head Lifeguard after serving as Lifeguard for two years
- Managed other lifeguards, supervised and ensured swimmers' safety, maintained facility cleanliness, and opened and closed the pool during summer

Counselor in Leadership Training, YMCA Camp Sea Gull, Arapahoe, NC — Summer 2019
- Repaired and maintained power boats of various engine types and taught boating skills
- Engaged in weekly leadership training sessions to grow communication, conflict management, organization, and team building skills

Leadership, Honors, Awards, and Publications

Eagle Scout, Boy Scouts of America — 2021

Captain, Varsity Crew — 2021

Clerk (President), Model United Nations Club — 2020 - 2021

Clerk (President), Political Awareness Club — 2019 - 2021

Science Center Peer Tutor — 2019 - 2021

Good Citizenship Award, Union League of Philadelphia — 2020

Published Mathematical Proof in NY State Mathematics Teachers' Journal — 2020

Letter of Commendation, National Merit Scholarship Program — 2020