James Boyden Tanner

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Education

Bachelor of Science with High Distinction, Computer Science and Economics
    University of Virginia School of Engineering and Applied Science, Charlottesville, VA   *May 2025*
High School Diploma, high academic honors, Cum Laude Society
    The William Penn Charter School, Philadelphia, PA   *June 2021*

Technical Projects and Course WorkRelevant Experience

Software Engineer at Perpay Inc., Philadelphia PA   *July 2025 - present*
- Contribute to a full-stack Django and React fintech web application serving over seven million users
- Engineer async tasks, online marketplace, payment processing logic, admin tools, CI/CD pipelines
- Work in-person with a growing team

Software Engineering Intern at Perpay Inc., Philadelphia PA   *Summer 2023, 2024*
Software Engineering Intern at The Brandtech Group, Philadelphia PA   *Summer 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

Robots in the Kitchen: NeuralNourishment, Python, Keras, TensorFlow   *2024*
- Built a lightweight recipe generator that suggests meals based on the user's ingredients
- Fine-tuned a GPT-2 transformer model on over 2 million recipes

Hoo's-Hungry Django web app, Django   *2020, 2022*
- Developed a fullstack, collaborative, restaurant review web application
- Implemented user authentication, google maps integration, restaurant browsing, and review submission

Numerai machine learning predictive model, Pandas, Numpy, Scikit-Learn   *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

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

Technical and Professional Skills

Proficient with Python, Java, C, JavaScript, Dart, SQL, Bash, HTML, CSS; Experience with Linux, Django, Flask, React, Next.js, Pandas, Numpy, Scikit-Learn, ROS, Keras, TensorFlow, Kubernetes, Terraform, Docker, PostgreSQL, Flutter, Bootstrap, Tailwind, Git, GitHub, AWS, GCP.

Other Work Experience

Head Lifeguard, North Hills Country Club, Oreland, PA   *Summer 2021*
- 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

Lifeguard, North Hills Country Club, Oreland, PA   *Summer 2019, 2020*
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*
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*