PETER TESSIER

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EDUCATION

University of Virginia, School of Engineering and Applied Science, Charlottesville, VA   *Expected May 2025*
- BS in Computer Science and BA in Mathematics, GPA 3.88
- Relevant Coursework: Machine Learning | Cybersecurity | Software Development (I & II) | Data Structures and Algorithms (I & II) | Discrete Math and Theory (I & II) | Computer Systems and Organization (I & II)

UVA in Valencia, Semester abroad, Valencia, Spain   *Fall 2022*
- Reached B2 (upper-intermediate) level of Spanish during a semester of 15+ European expeditions

SKILLS

- Proficient in: Python, Java, C, Scratch, Linux, git, Latex, Matlab, Excel, Scikit Learn, Keras, Django, Plotly Dash
- Experience with: Bash, JavaScript, Assembly, SQL, HTML/CSS, Amazon AWS, Google Cloud Console

RELEVANT EXPERIENCE

ML Data Analyst, *Machine Learning for Virginia*   *August 2023 – December 2023*
- Classified 130 Virginia counties with 100% accuracy using t-SNE and UMAP dimensionality reduction; K-Means, DBSCAN, and GMM clustering; and a TensorFlow-powered Deep Neural Net for 12-week competition
- Merged and cleaned 2 government datasets on food bank and food insecurity by hand-inspecting 100+ features
- Presented results in 6-page conference-styled paper and 7-minute video, including 7 references and graphics generated with Matplotlib, Plotly, and Seaborn

Summer Missionary, *Youth Apostles*   *May 2023 – August 2023*
- Supervised 20+ historically underprivileged youth 20+ hours a week, striving to demonstrate a positive example
- Established and led weekly virtue-based presentations and bible studies to cultivate growth in character

Test Automation Intern, *ScienceLogic*   *June 2022 – August 2022*
- Automated 4 manual test sets covering Electronic Key Management System (EKMS) initialization, restart-ability, logging, and token rotation, reaching 133% of company-requested goal
- Developed, tested, and standardized 800+ lines of Python code and 1100+ lines of Gherkin code
- Documented test automation guide on Jira webpage, including step-by-step instructions, individual test info, troubleshooting tips, and FAQs
- Delivered hour-long demonstration to team of 8, explaining both proper usage and underlying code
- Discovered, investigated, and detailed 3 bug tickets while running 11 Jira test sets as a Quality Assurance engineer

P2L Peer Coach, *University of Virginia*   *April 2022*
- Prepared and executed hour-long sessions twice a week to provide supplemental instruction for Calculus II
- Facilitated 5+ peers each session, evaluating particular group's needs and extemporizing when necessary
- Organized weekly coordination with course instructor to form optimal plan

Website Development Lead, *Forge Sprints*   *April 2022*
- Directed team of 3 in implementing 6 website improvements and marketing strategy for a local high school
- Specified timeline, solicited website access, communicated task expectations and progress, and executed virtual meetings with team and 5 clients
- Embedded photo gallery and API-powered Google Calendar using WordPress and Elementor

LEADERSHIP AND ADDITIONAL EXPERIENCE

- **Music Director:** Led twice-a-week 3-hour rehearsals, twice-a-month gigs, and semesterly concert in 14-member college a cappella group, resulting in doubled membership and heightened audience acclaim during 2023
- **Group Theory Researcher:** Performed 12-week research comparing effectiveness of 3 group theoretical tools for musical chord analysis with personal Math graduate student, culminating in 20-minute presentation
- **Social Club Co-founder:** Co-lead and manage communications for "Youth Apostles in Charlottesville", founded in Spring 2023, where 6+ men meet weekly over dinner, games, or prayer