

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

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

RELEVANT EXPERIENCE

ML Data Analyst, **Machine Learning for Virginia**, Charlottesville, VA

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 data 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

Full-Stack Web App Developer, **Advanced Software Development**, Charlottesville, VA

August 2023 – December 2023

- Designed, implemented, and tested Django/Python-built web application for hosting user-created and searchable-via-filter local events deployed on Heroku in team of 5 over 12 weeks
- Integrated Google Maps and Google OAuth API via Google Cloud Console with embedded map and user privileges
- Solicited and validated customer requirements by surveying and interviewing 35+ stakeholders, then having 5 users complete personally designed 28-step Beta test

Test Automation Intern, **ScienceLogic**, Reston, VA

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

Website Development Lead, **Forge Sprints**, Charlottesville, VA

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 during 2023. Emphasis on stage presence and attention to detail resulting in doubled membership and heightened audience acclaim
- **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
- **Summer Missionary:** Spearheaded weekly virtue-based talks and Bible studies as full-time volunteer serving 20+ disadvantaged at-risk youth to cultivate character growth during Summer 2023
- **P2L Peer Coach:** Taught 5+ Calculus II students for twice-a-week hour-long sessions during Spring 2022. Hired by university and regularly discussed plan with professor
- **AP Capstone Scholar:** Designed and presented year-long research project with 5,000-word report analyzing perception of fusion energy in 350+ high schoolers