ROBERT WORSHAM

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Experience

Technical Engineer   **Feb 2022 – Present**
Dalcom Consulting   *Greensboro, NC*
- Developed a project management software to replace current software saving approximately $5,000 per year.
- Developed a Python script to automate nightly sales data monitoring, increasing productivity by 25% (saving 60 hours per month).
- Developed custom Python tools for parsing and editing structured data, significantly reducing the risk of human error and improving workflow efficiency.
- Provide assistance and maintenance for various systems and technologies on behalf of support clients. This includes tasks such as troubleshooting issues, installing updates, configuring software and hardware, and ensuring the smooth operation of networks, devices, and systems.

Tier 1 NNPI/SIPR Agent   **Dec 2020 – Nov 2021**
U.S Navy Contractor   *Norfolk, VA*
- Remotely supported the entire U.S Navy Intranet approximately 700,000 users
- Was assigned to the VIP/EVIP team to provide the highest level support available and coordinate onsite resources for emergency intervention if needed
- Assess and troubleshoot computer problems brought by users including software, active directory, file server management, printers and iOS devices

Projects

Musical Time Machine | *Java, JavaScript, Spring Boot, React, Jsoup, PostgreSQL, MUI*   **Apr 2025 – Present**
- Architected and deployed a full-stack application powered by a Spring Boot RESTful API and a dynamic React frontend, enabling users to generate Spotify playlists based on historical dates.
- Integrated OAuth 2.0 authentication flow to securely connect with Spotify's Web API, allowing seamless user login and automated playlist creation within user accounts.
- Engineered a Jsoup-powered web scraping service with scheduled tasks to continuously harvest and update historical music chart data, expanding dataset coverage back to 1959.
- Designed and normalized PostgreSQL database schema to support efficient querying and persistent storage of curated music metadata.

BudgetBud | *Python, JavaScript, React, DRF, PostgreSQL, JWT, MUI*   **Oct 2024 – Apr 2025**
- Developed a full-stack, responsive budgeting application enabling collaborative financial tracking for families or individuals, powered by a React frontend and Django REST Framework backend
- Implemented secure user authentication and authorization using JWT with custom refresh token lifecycle handling
- Designed and built a modular, dynamic reporting dashboard using MUI for real-time financial insights and analytics
- Leveraged periodic tasks for automated goal tracking and background job processing
- Incorporated PostgreSQL for scalable relational data modeling with Django ORM, supporting complex queries and data aggregation

TaskGuider | *Python, Django, Bootstrap, Django Templates (DTL), PostgreSQL*   **Jun 2024 – Aug 2024**
- Designed and developed a full-stack project management platform using Django, featuring robust task tracking, team collaboration, and user role management.
- Deployed the application on a Debian-based virtual server using Nginx as a reverse proxy and Gunicorn as the WSGI HTTP server to ensure production-grade performance.
- Engineered a custom administrative dashboard to streamline user and permission management, enhancing operational control and system security.
- Styled UI components with Bootstrap to ensure a responsive, clean, and accessible user experience across devices.

Technical Skills

Languages: Python, JavaScript, Java, SQL (Postgres, SQLite3), HTML/CSS
Frameworks: React, Django/DRF, Spring, Flask, MaterialUI, Bootstrap, FastAPI, Streamlit
Developer Tools: Terraform, Docker, Nginx, Gunicorn, Git, PyCharm, Webstorm, Intellij, PGadmin, Postman, Jinja, DB Browser, Render

Education

Danville Community College   **2017 – 2019**
Associate of Applied Science in Network Engineering   *Danville, VA*

Danville Community College   **2018 – 2020**
Certificate of Cyber Security   *Danville, VA*