Jonathan M. Ballard

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Languages: Python, JavaScript, SQL
Libraries: React.js, Bootstrap, jQuery, Jinja2, Bcrypt, SQLAlchemy, PyMySQL, Tkinter
Frameworks: Django, Flask, Bootstrap
Database Technologies: MySQL, SQLite, MongoDB, MySQL Workbench
Development Tools: Git, VS Code, Eclipse, AWS EC2, Node.js
Other Skills: RDBMS, AJAX, HTML, CSS, SASS, Bash Scripting, PowerShell

Experience

Freelance Software Developer
2020 - Present

- **City of San Jose, ClearTrace Project:** Developed a HIPAA Compliant responsive web app serving a RESTful API in partnership with SJ Designated Infection Control Officers to digitally transform Blood Borne Pathogen Exposure Reporting across Santa Clara County, currently in early-stage testing; Wrote Back-end using Python and Django. Created Django Templates with HTML, CSS/SASS. Able to generate PDFs using PyPDF2 with data populated from a MySQL database.
- **Web Development Support:** Defined requirements, wrote technical specifications, produced wireframes in Figma, and developed webpages in PHP, HTML/CSS, JavaScript, WordPress. Worked with existing codebase to update website for seasonal event.
- **Technical Support:** Troubleshoot, diagnose, and repair networking, hardware, and software issues; set up and test computer networks; design, build and add hardware to computers; perform backups, software updates, and install new programs

Projects

X4 Scout Ship Game Mods Project
Mod Developer

- Created 8 new ships with story backgrounds. Mod was developed using XPATH to edit XSLT and XML files so as not to conflict with other popular mods.
- Created lore-friendly backstory to integrate mod into existing X4 universe.
- Mod updated and maintained to ensure compatibility after game updates.

Vae Vivorum, **a Roguelike Shmup game**
Lead Developer and Game Designer

- Built front-end with Bootstrap and Font Awesome and created game loop and all other Logic in JavaScript. Created back-end in Python, using Flask, and SQLAlchemy ORM, and used SQLite for the Database, allowing users to retain score and abilities across multiple play-throughs, deployed in AWS EC2

UnitCo, **a Unit Converter**
Developer

- Simple to use native application allowing users to convert between common measurements and time zones. Graphical user interface built with Tkinter. Logic was written in Python with considerations in mind so that project could be easily converted to MicroPython to run on a pyBoard for an upcoming Arduino project.

Education

Bachelor of Arts, *General Studies with Computer Science Concentration*, Southern New Hampshire University

Certifications

PCAP – Certified Associate Python Programmer – Certification ID: cwWq.0vEr.Hgpk