

Joshua Byrd

Summary

MS in Software Development (Boston University, 4.0 GPA) with a strong foundation in software engineering and data analytics. Skilled in Python, SQL, Java, and JavaScript, with hands-on experience across database design, analytics tools (Excel, Power BI), and full-stack development. Particular interest in data-driven problem solving, but open to roles in software development, data analytics, or database administration.

Education

Boston University

Master of Science in Software Development, 2023 – 2025
Graduated with 4.0 GPA.

West Virginia University

Bachelor of Multidisciplinary Studies, 2016 – 2020
Minors in Business Administration, Psychology, and Professional Writing & Editing.
Graduated summa cum laude with 4.0 GPA.

Skills

Core Skills

SQL (PostgreSQL, MySQL, SQLite); Python (NumPy, Pandas, Jupyter Notebook); Java; JavaScript; HTML/CSS; Excel; Power BI

Broader Competencies

Database Design & Normalization; Software Design Patterns; BASH/Linux Command Line; Git

Projects

Desolate Depths

Designed and implemented a Java-based text adventure game featuring SQLite persistence, multithreading, and file I/O. Employed object-oriented design patterns to manage combat, inventory, and exploration systems across a dynamically generated dungeon.

Goodreads Lite

Developed a full-stack web application using Node.js, Express, and MongoDB to simulate Goodreads-style functionality, including user accounts, book reviews, and CRUD operations. Demonstrated strengths in RESTful API design and NoSQL schema modeling.

Nutrition Tracker

Built an Android app in Kotlin using Jetpack Compose and SQLite to allow users to log daily food intake, track macro/micronutrients, and visualize progress. Showcased mobile development skills with

an emphasis on data persistence and UI/UX design.

Fitness Database

Engineered a PostgreSQL database schema for a fitness and nutrition platform, complete with stored procedures, triggers, and test datasets. Focused on data normalization, referential integrity, and real-world scalability in a backend-focused project.

The Agora

Developed an Angular-based news aggregator that integrates with the NewsAPI to fetch live headlines and organize them into a Kanban-style board with drag-and-drop functionality. Implemented local storage caching to optimize API usage and ensure smooth, interactive user experiences.

Experience

Caregiver & Graduate Student, 2020 – 2025

- Primary caregiver during multi-year leukemia treatment, managing all medical appointments, medications, and household responsibilities.
- Simultaneously completed graduate studies, earning an MS in Software Development from Boston University (4.0 GPA).
- Demonstrated resilience, time-management, and commitment by balancing full academic workload with intensive caregiving responsibilities.

Maintenance Engineer, Daly Hotel Management, 2019 – 2020

- Coordinated with Chief Engineer to oversee major renovation to all floors of the hotel.
- Conducted building-wide routine maintenance.
- Occasionally handled larger projects such as floor-wide replacement of closet doors.
- Conducted regular safety inspections of fire extinguishers, ladders, etc.

Maintenance Technician, Hilltop Center Nursing Home, 2016 – 2019

- Maintained building and grounds to OHFLAC standards, ensuring the safety of residents and staff.
- Repaired walls, floors, ceilings, plumbing, and electrical fixtures.
- Performed preventive maintenance on equipment.
- Served as interim maintenance director in director's absence, managing preventive maintenance and daily requests.
- Refurbished 80+ rooms over a six-month span.

Construction Worker, Chapman Contracting, 2014 – 2016

- Built new houses and additions as part of construction crew.
- Assisted lead carpenter in all phases of homebuilding.

Seasonal Tax Preparer, Bookkeeping for You and Taxes Too, 2013 – 2014

- Met with clients to evaluate financial needs and prepared tax returns using Drake software.
- Answered phones, filed paperwork, and performed general office/receptionist duties.

Maintenance Technician II, Tanglewood Park, 2007 – 2013

- Conducted safety inspections, authored job hazard analyses, and acted as liaison to OSHA.
- Deployed Maintenance Edge CMMS across nine parks and 100+ maintenance personnel.
- Conducted employee training sessions and ensured compliance.
- Oversaw aquatics facility operations (CPO/AFO certified), supervising operators and helpers.
- Authored 30+ page manual detailing facility operations in Festival of Lights installation and takedown.