

# JOSHUA BYRD

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## PROJECTS

### Headline Analysis

Used Python to fetch data from NewsAPI and analyze headlines to examine relationships between media bias, reliability, and sentiment.

### Fitness App Database

Designed a normalized fitness-tracking schema with tables for workouts, nutrition, and performance. Implemented stored procedures and triggers to handle transactions, enforce data integrity, and automate updates.

### The Agora

Built an interactive news aggregator SPA where users organize live headlines into boards using drag-and-drop. Integrated external APIs and local-storage caching to improve performance and user experience.

### Desolate Depths

Developed a text-based adventure game featuring combat, inventory management, and persistent saves. Applied design patterns and multithreading to manage complex game logic and background audio.

## EDUCATION

### **BOSTON UNIVERSITY (GPA 4.0/4.0)**

2023 - 2025

#### **Master of Science in software development**

**Courses:** Systems Programming | Data Structures & Algorithms | Database Design | Web Application Development | Server-side Web Development | Software Design Patterns | Mobile Development

### **WEST VIRGINIA UNIVERSITY (GPA 3.98/4.0)**

2016 - 2020

#### **Bachelor of Multidisciplinary Studies**

**Minors:** Business Administration | Professional Writing & Editing | Psychology

## SKILLS

### CORE SKILLS

- SQL – PostgreSQL, MySQL, SQLite
- Python – Pandas, NumPy, Jupyter Notebook
- Java
- Frontend – Javascript, HTML, CSS
- Excel
- Power BI

### BROADER COMPETENCIES

- Database Design & normalization
- Software Design Patterns
- BASH/Linux CLI
- Git

## EXPERIENCE

### **Caregiver & Graduate Student**

2020 - Present

- Primary caregiver for my son 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 Technician**

Daly Hotel Management – Beckley, WV

2019 - 2020

- Coordinated with Chief Engineer to oversee major renovation to all floors of the hotel.

## PROJECTS

### Nutrition Tracker

An Android application written in Kotlin with Jetpack Compose and SQLite. The app allows users to search a food database, add items to a daily log, and view nutrition summaries.

### Goodreads Lite

Goodreads Lite is a web server that replicates core Goodreads functionality, built with Node.js, Express, and MongoDB. Users can search for books by author, title, or ISBN; manage 'Read' and 'Want to Read' lists; and update their profiles.

- Conducted building-wide routine maintenance.
- Conducted regular safety inspections of fire extinguishers, ladders, etc.
- Occasionally handled larger projects such as the floor-wide replacement of closet doors.

### ***Maintenance Technician***

Hilltop Center Nursing Home - Hilltop, WV

2016 - 2019

- Maintained building and grounds to OHFLAC standards, ensuring the safety of residents and staff.
- Routinely repaired walls, floors and ceilings, including patching drywall, painting, replacing floor tiles, and similar work
- Performed regular preventive maintenance on multiple pieces of equipment.
- Routinely served as interim maintenance director in director's absence, managing preventive maintenance and dozens of daily work requests.
- Refurbished 80+ rooms over a six-month span.

### ***Construction Worker***

Chapman Contracting - Beckley, WV

2014 - 2016

- Built new houses and additions as part of construction crew.

### ***Seasonal Tax Preparer***

Bookkeeping for You & Taxes Too - Beckley, WV

2013 - 2014

- Met with new and existing clients to evaluate their financial needs.
- Prepared tax returns in accordance with state and federal law using Drake software.
- Answered phones, filed paperwork, and performed other general office/receptionist duties as needed.

### ***Maintenance Technician II***

Tanglewood Park – Clemmons, NC

2007 - 2013

- Conducted all regular safety inspections, authored multiple job hazard analyses, and acted as liaison to OSHA and risk management division.
- Deployed Maintenance Edge CMMS to the entire Parks and Recreation Department, including nine parks and 100+ maintenance personnel.
- Conducted multiple employee training sessions and followed up with park supervisors and managers to ensure compliance.
- Oversaw pool operations for Peter S. Brunstetter Aquatics Facility from 2008-2013, maintaining CPO and AFO certifications and managing chemical treatment of five pools to ensure clarity and sanitation. Supervised two operators and three seasonal helpers.
- Authored a 30+ page manual detailing the Facility Operations role in Festival of Lights installation and take-down.