

Zackary J. Bedwell

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EDUCATION

King's College

Bachelor of Science in Computer Science

Bachelor of Arts in Mathematics

Wilkes-Barre, Pennsylvania

Expected Graduation, May 2027

GPA 3.7/4.0

- **Concentrations:** High-Level Programming Environments, Web Development, Database Systems, Computer Hardware, AI/ML
- **Related Coursework:** Computing in Python, Java Programming, Website Creation using HTML, CSS, and JavaScript, Object-Oriented Programming, Data Structures, Database Management using PSQL, Computer Organization, Artificial Intelligence, Machine Learning, Discrete Math, Statistics, Linear Algebra
- **Men's Tennis Team (2023 – Present):** ITA Scholar-Athlete, MAC Academic Honor Roll
- **Coding Club Founder:** ICPC – International Collegiate Programming Contest, University of Delaware's HenHacks 24Hr Coding Competition

EXPERIENCE

Apex Era

Software Engineering Intern

Philadelphia, PA

July 2025-Present

- Engineered a ticketing and client management system that streamlined customer support and project tracking for trade businesses, improving response efficiency by 30%.
- Developed a client portal integrating the Google Business Profile API, enabling users to manage reviews, leads, and analytics directly through the platform.
- Designed and implemented RESTful APIs to synchronize customer data across internal dashboards and external business tools, ensuring real-time lead visibility for trade professionals.
- Collaborated with a cross-functional team to optimize backend workflows, reducing manual data entry and increasing operational throughput for partner contractors.

Project Purple – Virginia Tech

Back-end Developer

Remote (Blacksburg, VA)

December 2024-July 2025

- Designed and maintained a scalable back-end server using Node.js and Express, enabling secure user authentication and dynamic data access.
- Integrated Firebase Authentication and Firestore, streamlining real-time user data storage, secure custom token generation, and session validation.
- Developed RESTful API endpoints to support Spotify OAuth 2.0 login, user registration, and protected route access with Firebase custom claims and token verification middleware.
- Enhanced security and scalability by implementing token parsing logic and middleware to validate Firebase ID tokens across routes.
- Collaborated with the front-end team to align API design with UI needs, optimizing JSON payload structures and improving frontend performance.
- Conducted remote development and debugging using Postman, and wrote documentation for API testing, ensuring seamless onboarding and team communication.

PROJECTS AND SKILLS

- **Legal Lens:** A web application designed to help users better understand legal documents by breaking down complex language into clear, accessible insights. (Node.js, PostgreSQL, REST APIs)
- **Pokémon BattleDex:** A database-driven web app that helps players plan better Pokémon battles by exploring Pokémon types, stats, abilities, and moves in one place. (PostgreSQL, SQL, HTML/CSS, JavaScript)
- **Programming Languages:** Python, Java, C, C++, Kotlin, JavaScript, SQL, MatLab, RISC-V
- **Full-Stack Development:** HTML, CSS, JavaScript, Node.js, Express.js, Firestore, API Design, database management with PostgreSQL and Firebase. RESTful APIs, CRUD, Git Version Control, NumPy, Matplotlib
- **Certifications:** Microsoft Word and Excel (Office 2019)