

# Jeybriel Townsend

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## EDUCATION

### Bachelor of Science, Computer Science

Virginia Military Institute — Lexington, VA Aug 2015 - May 2019

- Relevant Coursework: Data Structures & Algorithms, Computer Networking, Computer Architecture, Mobile Programming and Applications, Software Engineering, Internet of Things (EE)

### Full Stack Web Development Course

Talent Tech South — Charlotte, NC Oct 2022 - Mar 2023

## WORK EXPERIENCE

### Software Engineer

University of Dayton Research Institute — Dayton, OH Jun 2023 - Present

- Deliver software solutions for enterprise applications including data migrations, cybersecurity, and cloud-based storage pipelines using Java, Python, and MongoDB
- Follow the SaaS engineering process end-to-end: comprehensive test cases, development, and manual testing to ensure system robustness
- Perform code reviews and generate development tasks to maintain team workflow efficiency and uphold code quality/readability standards
- Manage the full development lifecycle, from gathering requirements to technical design discussions and presenting prototypes to clients

### Electronic Healthcare Records Developer

Path Integrated Healthcare — Dayton, OH Dec 2020 - Oct 2022

- Facilitated an electronic health records (EHR) system enabling digital creation, updates, and record-keeping of patient data; supported and configured new services
- Assessed the Computerized Patient Record System (CPRS) database for completeness, identifying and documenting deficiencies
- Provided direct IT support and troubleshooting for EHR-related inquiries, tracking electronic signatures and communicating deficiencies to clinical staff
- Developed and delivered training for system administration and reporting functions, customizing settings to individual staff needs
- Collaborated with interdisciplinary staff to resolve health-record documentation issues and maintain a reliable database

### Data Analyst Intern

Systecon — Washington, D.C. Dec 2018 - Jan 2019

- Wrote technical reports on classified (NDA) documentation for aircraft part logistics analysis

## PROJECTS

### EEG Polygraph Test (Machine Learning)

Personal Project

- Built a polygraph model that uses EEG brain waves instead of heart rate as input, aiming for greater accuracy and reduced susceptibility to countermeasures, using Python and TensorFlow
- Trained a neural network on 10,000 samples, reaching 97% accuracy, demonstrating potential applications in law enforcement and defense settings

## SKILLS

**Languages:** Java, Python, C++, JavaScript, HTML/CSS3, SQL

**Databases:** MongoDB, MySQL, Microsoft SQL Server

**Tools:** React.js, Bootstrap, Docker, jQuery, Git, GitHub, Java Web Services API, Salesforce