

Romerico David Jr.

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EDUCATION

Towson University

Bachelor of Science in Computer Science, 3.94 GPA

Towson, MD

May 2026

TECHNICAL SKILLS

Languages: Java, Python, C++, HTML, CSS, JavaScript (Node.js), TypeScript, JSX/TSX, LaTeX

Frameworks/Libraries: Express.js, React.js, Angular, MongoDB, Bootstrap, NumPy, Matplotlib, pandas

Databases: MongoDB

Developer Tools: Visual Studio Code, Anaconda, Jupyter Notebook, Git, GitHub

EXPERIENCE

Junior Software Developer

SecurEd Inc.

- Incoming Fall 2024

Aug 2024 – Present

Towson, MD

Software Engineering Intern

Y STEM and Chess

- Incoming Fall 2024

Aug 2024 – Present

Remote

Computer Science Peer Tutor

Towson University

- Provide drop-in tutoring up to 10 students every session in Java, Python, and C++
- Assist students with understanding concepts in data structures, algorithms, structured and object-oriented programming

Feb 2024 – Present

Towson, MD

Undergraduate Researcher in Federated Learning

Towson University

- Leveraged Flower FL framework (TensorFlow) to conduct experiments
- Compared FL aggregation methods FedAvg, FedProx, and QfedAvg across varying types of model poisoning attacks during data processing and model training

Aug 2023 – Jan 2024

Towson, MD

Research Intern

Towson University

- 1 of 12 students chosen for the TIGURS summer undergraduate research program
- Utilized PyTorch, NumPy, pandas, Matplotlib, and scikit-learn to simulate feed-forward, convolutional, and recurrent neural networks using the MNIST and CIFAR-10 datasets
- Evaluated experiments based on Accuracy, Confusion Matrix, Precision, and Recall

June 2023 – July 2023

Towson, MD

PROJECTS

[TU Campus Inquiry Project](#) | *MEAN Stack, Bootstrap, Nodemailer*

June 2024 – Present

- Developing a full-stack web application featuring a REST API to facilitate student requests and connect them with Towson University counselors
- Utilizing the MEAN stack, Bootstrap, and Nodemailer to enhance email functionality
- Implementing secure authorization using Auth0

[Personal Portfolio](#) | *React.js, TypeScript, Bootstrap*

July 2024

- Developed a personal portfolio website using React.js, and TypeScript JSX (TSX)
- Styled the website using Bootstrap and Vanilla CSS

[Murder Mystery Interactive Storyline Project](#) | *Java, OOP*

May 2024

- Developed a text-based interactive game to solve a murder mystery, incorporating evidence collection and clue investigation
- Utilized Java to create the game, emphasizing object-oriented programming principles: Abstraction, Encapsulation, Inheritance, and Polymorphism

[Nonlinear ODEs and Linear PDEs Equivalence Project](#) | *Python, NumPy, SciPy, Matplotlib*

March 2024 – May 2024

- Researched the equivalence between nonlinear ordinary differential equations and linear partial differential equations in fluid dynamics
- Utilized Python and frameworks such as NumPy, SciPy, and Matplotlib for simulation and visualizations
- Developed papers and presentations using LaTeX and Microsoft PowerPoint