

# Gregory Bateham

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## Education

Florida Gulf Coast University — *Bachelor's of Science in Software Engineering*  
AUGUST 2020 - MAY 2024, FORT MYERS FLORIDA

Florida Polytechnic University — *Master's of Science in Computer Science*  
JANUARY 2025 - PRESENT, LAKELAND FLORIDA

## Technical Skills

**UI & Development:** React.js, Next.js, JavaScript, TypeScript, HTML, CSS, TailwindCSS, Responsive Design

**Languages:** Java, Python, SQL, PL/SQL

**DevOps & Deployment:** Docker, Git, CI/CD, Test Automation (Jest, TestNG), Agile Methodology

**Frameworks & Libraries:** Node.js, Express, Three.js, Selenium

## Certifications

Microsoft Certified: Azure Fundamentals - *Issued July 2025*

Docker Foundations Professional Certificate - *Issued June 2024*

## Work Experience

### Software Engineering Intern

*Department of Homeland Security, AUGUST 2023 - MAY 2024*

- Awarded Best Design/Presentation for Whitaker College of Engineering by working with six colleagues to create a web scraper (Netspider) for possible human trafficking websites.
- Recognized by NBC for contributing to over 500 investigations, 84 search warrants, 37 arrests, and 63 victims saved within the state of Florida.
- Applied concepts of Agile, SDLC, DevOps, CI/CD, Jira, Git, and RESTful APIs to developing software using JavaScript, Python, ElectronJS, Flask, Pandas, HTML, CSS, Tailwind, etc.
- Supervisor: Investigator Clinton Thompson. Email: clinton.a.thompson@ice.dhs.gov

### Website Developer

*Cut It Forward LLC, SEPTEMBER 2024 - NOVEMBER 2024*

- Leveraged React.js, Next.js, and Framer Motion for modern UI development and created an engaging user experience.
- Utilized TypeScript for type safety and implemented a fully responsive design with HTML and Tailwind CSS.

### Software Engineering Intern

*EEI Security Inc., JANUARY 2025 - MARCH 2025*

- Researched and proposed cloud-based solutions with a focus on AWS-integration to streamline and expand the business model.
- Recognized as a hands-on leader for incorporating SolarWinds as an infrastructure management platform.
- Advanced an antiquated SQL-based customer database.

### Relevant Projects

**CuttingEdgeAI - RL Optimizer for 2DCSP** (Python, PyTorch, OpenCV, Stable-Baselines3, Gymnasium) (2025):

- Combined thresholding, morphological ops, and contour analysis with a ResNet-50/LSTM feature extractor to derive precise cloth & pattern geometry from raw images.
- Trained a Proximal Policy Optimization agent to nest irregular shapes on fabric grids within a grid/spiral fallback to guarantee a feasible cutting plan whenever RL fails.
- Significantly reduced material waste and production time for small-to-mid-scale fashion manufacturers by demonstrating a viable AI-driven alternative to manual or heuristic CAD methods.

**Patent AI Checker** (TensorFlow, PyTorch, JavaScript, Python, React.js, Node, Flask, Docker) (2024):

- Awarded 2nd place at FGCU's first official hackathon for developing a comprehensive patent analysis tool in one week.
- Developed the entire User Interface using React, connected OpenAI APIs to create real-time context and syntax similarity checking and a customized chatbot to provide feedback.
- Utilized Docker to containerize the full-stack application, ensuring streamlined, consistent deployment and scalability on AWS.

Open source projects: **Github:** <https://github.com/gdxbs> | **LinkedIn:** <https://www.linkedin.com/in/gbateham/>