



Matthew Eng

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EDUCATION

Bachelor of Science in Computer Science, Minor in Data Science

Graduated May 2025

Rutgers, The State University of New Jersey | GPA: 3.65 | Dean's List (4x) | Cum Laude

New Brunswick, NJ

WORK EXPERIENCE

IT Supervisor

Sept. 2022 – Present

Rutgers Office of Information Technology

New Brunswick, NJ

- Resolve 50 ServiceNow IT tickets (network, hardware, account issues) weekly for Rutgers students, faculty, and staff, enhancing service efficiency & user satisfaction
- Leverage Juniper Mist to monitor AP uptime, analyze client connectivity, and run AI-driven queries to resolve Wi-Fi issues
- Conduct 9 data-informed performance reviews per semester using evaluation rubrics and ticket resolution metrics, leading to improved consultant efficiency and career development
- Maintain 10+ internal/external knowledge articles monthly, streamlining troubleshooting & escalation workflows
- Train, mentor, and oversee 15 new/promoted consultants per semester, ensuring team readiness and collaboration
- Evaluate 45 applicants based on technical proficiency, problem-solving, and communication skills, improving recruitment

Cybersecurity Intern

June 2024 – July 2024

OmniSOC (Security Operations Center)

Bloomington, IN

- Configured Filebeat and Logstash pipelines to ingest and forward log data into Elasticsearch for real-time analysis
- Analyzed malicious network traffic (Wireshark, Zeek) and log data (Kibana) in CTFs, enhancing threat detection capabilities
- Conducted incident response simulations to analyze adversary TTPs and improve detection and remediation workflows
- Delivered CVE analysis mapped to the MITRE ATT&CK Framework, presenting exploitation vectors and mitigations to CISOs

Full Stack Web Developer

Sept. 2022 – May 2024

Rutgers Enactus (non-profit club)

New Brunswick, NJ

- Developed a full-stack job and resource platform with React and Firebase to support former inmates with employment, housing, food, and clothing resources
- Implemented secure authentication and resume parsing to extract key skills and improve job-matching accuracy
- Integrated financial literacy and career development videos to enhance user self-sufficiency and engagement

PROJECTS

AI Chatbot – Next.js, Vercel Postgres, NextAuth.js, AI SDK

March 2025

- Built an AI-powered full-stack web app, enabling real-time chat and dynamic LLM-driven content generation
- Integrated React Server Components and AI SDK for optimized performance, secure authentication, and persistent data

Task Manager – React, Vite, Tailwind, Appwrite

January 2025

- Designed and deployed a secure task management web app, enabling real-time CRUD functionality for authenticated users
- Built a responsive, minimalist UI with Tailwind and modular React components, enhancing UX and reducing cognitive load

Amazon Recommendation System – Python, NumPy, Pandas, Sklearn

Oct. 2024 – Dec. 2024

- Implemented collaborative filtering and SVD to predict ratings and recommend items from a 37MB Amazon dataset
- Evaluated model performance using precision, recall, and NDCG metrics to enhance recommendation relevance

CNN Wildfire Detection – Python, PyTorch

Oct. 2024 – Dec. 2024

- Implemented YOLOv7 for real-time wildfire detection using labeled fire/smoke images, optimized for low-latency inference
- Fine-tuned models through hyperparameter adjustments (epochs, input resolution) and hardware benchmarking (GPU/CPU)

CERTIFICATIONS

- **AWS:** Machine Learning Foundations
- **LinkedIn Learning:** Prompt Engineering & AI Agents, Python Essential Training, Spark Essential Training

SKILLS

- **Languages:** Python, Java, R, SQL, C, JavaScript, TypeScript, HTML, CSS
- **Web/Software:** React, Node.js, Next.js, Tailwind, Vite, Firebase, AI SDK, Docker, JavaFX, Android Studio, Git
- **Data/Analytics:** Pandas, NumPy, SciPy, Matplotlib, Seaborn, Sklearn, PyTorch, MySQL, PostgreSQL, MariaDB, Hadoop, Spark, Kafka, Tableau