



Matthew Eng

Data Science & Analytics | Web Development | Software Engineering

CONTACT

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EDUCATION

Bachelor of Science

Major: Computer Science

Minor: Data Science

Expected: May 2025

Rutgers University, NJ

GPA: 3.65 | Dean's List (4x)

PROGRAMMING

Java	JavaScript
Python	TypeScript
R	HTML
C, SQL	CSS

WEB & SOFTWARE

React	Tailwind
Node.js	Vite
Next.js	Firebase
AI SDK	JavaFX
Docker	Android
Git	Studio

DATA & ANALYTICS

Pandas	MySQL
NumPy	PostgreSQL
SciPy	MariaDB
Matplotlib	Neon/Blob
Seaborn	Spark
Sklearn	Kafka
PyTorch	Tableau

CYBERSECURITY

Linux	Elastic Stack
Wireshark	AWS

CERTIFICATIONS

- AWS Machine Learning Foundations
- Prompt Engineering & AI Agents
- Python Essential Training
- Spark Essential Training

WORK EXPERIENCE

IT Supervisor (Level 1, Level 2, and Level 2 Specialist) **Sept. 2022 – Present**
Rutgers Office of Information Technology *New Brunswick, NJ*

- Troubleshoot and resolve **50 ServiceNow IT tickets** with Rutgers students, faculty, and staff per week: 18 hours per week while attending school part-time
- Conduct **9 consultant performance reviews** per semester and provide constructive feedback to improve performance and enforce accountability
- Create and modify **10 internal and external knowledge articles** per month to streamline the troubleshooting and escalation processes
- Train, mentor, and manage **15 new and promoted consultants** per semester
- Evaluate and grade **45 prospective applicants** based on technical proficiency, problem-solving skills, soft skills, and overall suitability for IT positions

Cybersecurity Intern **June 2024 – July 2024**
OmniSOC (Security Operations Center) *Bloomington, IN*

- Deployed **Filebeat & Logstash** to collect, process, and ship logged data to Elastic
- Analyzed **malicious network traffic** and logged data in CTF exercises
- Engaged in tabletop exercises to conduct **incident response scenarios** and gained insights into threat actor Tactics, Techniques, and Procedures (TTPs)
- Showcased **project to mentors/CISOs**, outlining a CVE via the MITRE Framework

Full Stack Web Developer **Sept. 2022 – May 2024**
Rutgers Enactus (non-profit club) *New Brunswick, NJ*

- Enhanced a website that **matched employment opportunities** with previously incarcerated individuals through **resume parsing** and other resources
- Utilized the **React library** to implement **new features** and **modernize the UI**
- Incorporated **Firebase** for **authentication** and **database/backend** capabilities

PROJECTS

AI Chatbot **March 2025**
Technologies: Next.js, Vercel Postgres, NextAuth.js, AI SDK

- Developed an **AI-powered** full-stack web app, enabling **real-time chat** and **dynamic content generation** with LLMs
- Integrated React Server Components and AI SDK to **optimize performance** and provide a **seamless UX** with **secure authentication** and **data persistence**

Task Manager **January 2025**
Technologies: React, Vite, Tailwind, Appwrite

- Deployed a **web app** that allows users to create, read, update, and delete tasks
- Integrated **user authentication** and a **minimalistic UI** for security and clarity

Amazon Recommendation System **Oct. 2024 – Dec. 2024**
Technologies: Python, NumPy, Pandas, Sklearn

- Implemented and refined **collaborative filtering** and **SVD** algorithmic models to accurately **predict ratings & recommend items** from a 37 MB Amazon dataset
- Evaluated and optimized models using precision, recall, NDCG, and more

CNN Wildfire Detection **Oct. 2024 – Dec. 2024**
Technologies: Python, PyTorch

- Utilized **YOLOv7** models for precise fire/smoke **object detection** in images
- Analyzed **detection speed** and **accuracy** by testing and fine-tuning adjustable parameters, including models, epochs, image sizes, and CPU/GPU