



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 – June 2025

Rutgers Office of Information Technology

New Brunswick, NJ

- Leveraged Juniper Mist to monitor AP uptime, analyze client connectivity, and run AI-driven queries to resolve Wi-Fi issues
- Resolved 2,000+ ServiceNow IT tickets involving network configuration, hardware diagnostics, and account access issues, improving service efficiency and user satisfaction across the university
- Led hiring, training, and mentorship of 150+ IT consultants, improving onboarding, team performance, and collaboration
- Conducted 25 data-driven performance reviews using evaluation rubrics and ticket resolution metrics, resulting in measurable improvements in consultant productivity and professional development
- Created 50+ internal and external knowledge base articles, streamlining troubleshooting & escalation workflows

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:** Java, Python, R, SQL, C, C#, C++, JavaScript, TypeScript, HTML, CSS, Bash (Shell)
- Web/Software:** React, Node.js, Next.js, Tailwind, Vite, Firebase, AI SDK, Docker, Kubernetes, JavaFX, Android Studio, Git
- Data/Analytics:** Pandas, NumPy, SciPy, Matplotlib, Seaborn, Sklearn, PyTorch, TensorFlow, MySQL, NoSQL, PostgreSQL, MongoDB, MariaDB, AWS, Azure, GCP, Snowflake, Redshift, Hadoop, Spark, Kafka, Tableau, Power BI
- Tech Competencies:** Data Structures, Algorithms, OOP, SDLC, CI/CD, CLI, Agile, DevOps, REST APIs, Frontend/Backend, ML, NLP, Cloud Infrastructure, Big Data, Data Cleaning, Data Visualization, Data Warehousing, ETL Pipelines, KPIs, End-to-end