



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

CinemaGPT – Python, NLTK, SpaCy, Sklearn, Pandas, Streamlit

August 2025

- Developed a Streamlit app in Python that converts natural language movie queries into structured data lookups using SpaCy for entity extraction and Sklearn for intent classification
- Built a modular NLP pipeline with NLTK preprocessing and Pandas filtering, transforming raw TMDb data into a queryable format aligned with user intent and data quality principles

Auto Insurance Analysis – Python, NumPy, Pandas, SciPy, Matplotlib, Seaborn

February 2025

- Conducted EDA and hypothesis testing on insurance data to uncover demographic and credit score impact on claims
- Visualized insights with Matplotlib and Seaborn; applied permutation tests to statistically validate findings & strengthen data-driven conclusions

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, SQL, R, Java, C, C#, C++, JavaScript, TypeScript, HTML, CSS, Bash (Shell)
- Data/Analytics:** TensorFlow, Streamlit, MySQL, NoSQL, PostgreSQL, MongoDB, MariaDB, Tableau, Power BI, Excel
- Cloud & Infrastructure:** AWS, Azure, GCP, Docker, Kubernetes, Hadoop, Spark, Kafka, Snowflake, Redshift, Git
- Tech Competencies:** Data Modeling, Data Warehousing, Data Validation, Data Cleaning, Data Visualization, Big Data, ETL & End-to-End Pipelines, KPIs, Machine Learning, NLP, REST APIs, SDLC, CI/CD, Agile, DevOps, Data Structures, Algorithms, OOP