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++, 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