ETHAN KEMPROWSKI

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EDUCATION

Virginia Polytechnic Institute and State University, Blacksburg   Blacksburg, VA (Aug 2022-May 2026)
Major: Computer Science - **Minor:** Mathematics
GPA: 3.78
- **Honors and Awards:** Hack@Davidson 2nd place winner and best use of MongoDB winner
- **Coursework:** Data Structures and Algorithms, Computer Organization, Linear Algebra, Multivariable Calculus, Computer Systems, Database Management Systems, Differential Equations, Cryptography, Data and Algorithm Analysis, Comparative Languages

WORK EXPERIENCE

Software Development Intern | Hexagon ↗   Remote (May 2025-Oct 2025)
- Participated in Agile development processes including daily stand-ups, sprint planning, and sprint reviews; regularly presented work to cross-functional teams
- Developed a proof-of-concept reporting framework in Jupyter Notebook that integrated Azure Blob Storage and App Insights data (using C#), and generated interactive Bokeh visualizations of outdated service objects
- Automated testing for a core service to validate functionality and improve QA efficiency using Python and JavaScript
- Developed a centralized DevOps dashboard with HTML/JavaScript widgets powered by Azure Application Insights (KQL), featuring dynamic, color-coded alerts to provide real-time visibility into service health
- Developed and tested a new API endpoint to support multi-request functionality, including unit testing, version control, and integration within the existing codebase using Git

Software Engineer Intern | Ticketmaster ↗   Reston, VA (Jun 2024-Aug 2024)
- Participated in a SAFE/Agile development framework with daily stand-ups, PI planning, and used Jira to manage daily workload
- Created a robust framework to manage and store Java service metrics, extending historical tracking from 2 weeks to 3 years to improve API efficiency
  - Built cloud infrastructure with Terraform and YAML, using AWS Timestream for time-series storage, Lambda for serverless computing, and EventBridge for app integration
  - Leveraged SQL and S3 for scalable data querying and storage, and implemented monitoring with CloudWatch and Grafana, workflows with GitLab, and secure access with IAM

PERSONAL PROJECTS

ThreatSight ↗ **| Winner of Hack@Davidson Second Overall and MongoDB Tracks**   (Feb 2026)
- Built an end-to-end, cloud-hosted Security Operations Center (SOC) transforming raw network traffic into AI-driven, searchable security intelligence
- Designed a near–real-time data pipeline ingesting packet and honeypot telemetry, normalizing to JSON, and storing in MongoDB for SOC refresh-based updates
- Integrated AI-assisted traffic analysis to identify patterns and attacker behavior, reducing manual inspection
- Developed a live visualization dashboard using React, Tailwind CSS, and Apache ECharts for monitoring network events and threats

Tessera ↗   (Jun 2024-Aug 2024)
- Developed Tessera, a full-stack ticketing web app simulating the Ticketmaster website using React (Chakra UI), Flask, and SQLite
- Implemented user authentication (JWT, CORS) and integrated Stripe payments
- Tested APIs with Postman, showing end-to-end development skills

SKILLS AND OTHER

Dev Tools: VS Code, Eclipse, IntelliJ, Visual Studio, Postman, GitLab, Jupyter Notebook, MongoDB, GitHub, Docker Desktop, npm, Vite, Jira, Terraform
Programming Languages: Python, JavaScript, Java, React.js, SQL, HTML, CSS, C, C#, KQL
Software: AWS (Lambda, Timestream, EventBridge, CloudWatch, IAM), Microsoft Azure (App Insights, Wiki/Dashboards), Flask, Bokeh