

Ethan Kemprowski

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Education

Computer Science Major - Mathematics Minor, Virginia Tech—Blacksburg, VA Expected Graduation: May 2026
Dean's List: Fall 2022 - Spring 2025 GPA: 3.78

- **Coursework:** Statistics, Data Structures and Algorithms, Computer Organization, Applied Combinatorics, Linear Algebra, Multivariable Calculus, Computer Systems, Database Management Systems, Differential Equations
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Work Experience

Hexagon | *Software Development Intern* May 2025 - Oct 2025 | Remote

- 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 Python (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that integrated Azure Blob Storage and App Insights data (using C#), and generated interactive Bokeh visualizations of outdated service objects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
- Conducted load testing with JMeter and built Python tooling to parse results, calculating response time distributions and success/failure rates to evaluate service reliability
- 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.

Ticketmaster | *Software Engineer Intern* Jun 2024 - Aug 2024 | Reston, VA

- Participated in a SAFE/Agile development framework including daily stand-ups, PI planning, and used Jira to manage daily workload
 - Developed Tessera, a full-stack ticketing web application using React (Chakra UI), Flask, and SQLite; implemented user authentication (JWT, CORS), integrated Stripe payments, and tested APIs with Postman, demonstrating end-to-end development skills
 - 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
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Extracurriculars

Society of Asian Scientists and Engineers Member | *Virginia Tech* Sep 2023 - Present | Blacksburg, VA

- Participated in social and developmental events, expanding my personal and professional growth as an asian engineer

The National Society of Leadership and Success | *Virginia Tech* 2023 - Present | Blacksburg, VA

- Selective honor society at Virginia Tech. Gained professional leadership training
 - Engaged in organization sponsored community involvement
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Skills

Programming: Python, Java, HTML, CSS, JavaScript, ReactJS, C, SQL, HashiCorp Configuration Language, C#, KQL
Tools: VS Code, Eclipse, IntelliJ, Postman, Gitlab, AWS (Lambda, Timestream, Eventbridge, Cloudwatch, IAM), Jira, Flask, Vite, NPM, Bokeh, Jupyter Notebook, Azure DevOps (App Insights, Wiki/Dashboard), Visual Studios, Docker Desktop

Projects

Portfolio | *HTML, CSS* - ethankemprowski.netlify.app/ Oct 2023 - Present

- Work in progress of a digital portfolio, displaying personal info, work, and experiences
- Contains repositories of all projects, including recreations of simple games