

James Daus

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Education

Colgate University, Computer Science, Hamilton, NY

August 2018 - May 2022

GPA: 3.9

Awards: Sanchis Award for Excellence in Research, Dean's Award With Distinction for Academic Excellence

Courses: Algorithms, Data Structures, Software Engineering, Cybersecurity & Privacy, Networks, Computer Systems, Machine Learning, Computer Vision, Discrete Math, Multivariate Calculus

Experience

Microsoft (AIM Consulting), Remote

December 2022 - Current

Software Engineer

- Developed and maintained geospatial data pipelines for open-source Overture Maps Foundation, efficiently processing large-scale data for releases ingested in apps used by millions of users.
- Architected and implemented version control systems for varied geospatial data from many providers, organizing and distributing all test and production data stored in Azure ADLS.
- Built geospatial data validations ensuring data quality control and schema consistency with each release.
- Designed, built, and deployed C# .NET REST APIs on Azure Web Apps, automating the sorting and handling of 1000s of user reports, saving over 250 hours per month of labor.
- Maintained full-stack web apps using Javascript, C#, and React, triaging over 100 bugs, building 38 user requested features, migrating legacy code to cloud apps, and fixing 20+ critical security vulnerabilities.
- Technologies: C# .NET, REST API, Azure, JS (React), Python, Spark, SQL, GeoParquet, GeoJSON

BLANK Humanity, Remote

August 2021 - July 2022

Software Engineer, Co-Owner

- Designed and built a cloud-hosted social platform, scaling systems to efficiently store and serve 400,000+ photos and texts for thousands of users, generating \$220,000.
- Created unit and integration tests ensuring 99% accuracy of machine learning models and reliable deployment as new data was added, meaning users always had a working product.
- Managed 4-5 simultaneous prototypes, turning ambiguous user suggestions into reliable products.
- Communicated technical results to a community of 3,000+ users, creating engagement for every release.
- Technologies: C# .NET, REST APIs, Python, TensorFlow, Azure, Javascript (React), Git

Dev Launchers (Open-Source), Austin, TX

January 2021 - June 2022

Lead Engineer

- Led a team of over 60 engineers across 8 countries on an open-source project, architecting goals and building CI/CD pipelines to handle contributions, producing 600 commits across 3 repositories.
- Mentored 20 coders in algorithm design, data structures, and clean code principles, allowing them to volunteer on open-source projects which led to 6 trainees getting their first jobs in the industry.
- Technologies: C# .NET, Azure, Git

Colgate University, Hamilton, NY

August 2021 - December 2021

Software Engineer

- Built cloud-hosted ML pipeline and REST APIs to process thousands of 4k photos for researchers.
 - Wrote over 60 unit, integration, and functional tests for APIs and backend, complete with CI/CD.
 - Technologies: Python, REST APIs, C, Git, JS, SQLite, Selenium, jQuery
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Skills

C# .NET, REST APIs, Python, Cloud Computing (Azure & AWS), JS (React), SQL, Spark, ML, Git, CI/CD