Josef Karpinski

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EDUCATION

University of Connecticut Storrs, CT
Bachelor of Science in Computer Science *Grad: May 2026*
Bachelor of Arts in Applied Mathematics *GPA: 4.0 / 4.0*

- Awards: 2024 & 2025 Babbidge Scholar, 6x College of Engineering Dean's List
- Relevant Coursework: Systems Programming, Algorithms & Complexity, Computer Architecture, Artificial Intelligence, Big Data Analytics, Principles of Databases, Machine Learning, C++ Essentials

EXPERIENCE

Software Development Intern May 2025 – Present
Epic Systems *Verona, WI*

- Designed and developed a code review assignment tool to streamline Epic's internal review process by intelligently matching developers based on domain expertise, workload, and availability
- Built a full-stack application using C#, TypeScript, and React, collaborating with senior engineers to integrate the tool into existing development workflows to improve review efficiency

Software Engineering Intern May 2024 – August 2024
Pratt & Whitney *East Hartford, CT*

- Developed and deployed an app directory used by 100+ employees in my organization, utilizing VueJS and AWS
- Developed 3 report generation tools estimated to save the organization over $20000/year in engineering labor, using Python, pandas, NumPy, AWS Lambda, and AWS CloudFormation
- Gained continuous experience with Git, GitHub, and Scrum Agile Methodologies for project workflows and efficiency
- Gained in-depth knowledge of AWS best practices in security and app development

PROJECTS

Circlegame | *Full-Stack + Game Design* May 2022 – Present

- Developed a minimalistic, 2D aim trainer using the MERN development stack (MongoDB, Express, React, Node)
- Led a team of developers and leveraged Git and Agile methodologies to improve workflows and overall production
- Built an interactive and aesthetic frontend UI using React and p5.js
- Implemented a backend server using Node.js, Express, and MongoDB to manage user authentication, handle user scores, and maintain a dynamic leaderboard system

ValoScout | *Data Analytics + REST API* June 2023 – November 2023

- Developed a comprehensive program to scout and analyze semi-professional VALORANT teams, providing valuable competitive insights for high-level tournament play
- Created interactive dashboards for visualizing team performance metrics and trends using React and Flask
- Implemented a Python script for web-scraping, aggregating, and structuring data from multiple sources

QuizCards | *Web Development + Chrome API* April 2024 – June 2024

- Developed a Google Chrome Extension where users can turn online Quizlet flashcard sets into physical flashcards
- Implemented customizable PDF creation functionality using JavaScript and the Chrome Developer API

TECHNICAL SKILLS

Languages: Python, Java, C, C++, R, SQL, HTML, CSS, JavaScript, Typescript, C#
Frameworks: React, Node.js, Express.js, Django, Flask, WordPress, Vue.js
Developer Tools: Git, GitHub, Docker, Kubernetes, Agile, Scrum, AWS
Libraries: PyTorch, NumPy, pandas, Matplotlib, PDF-LIB.js, p5.js, Processing