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: 2023 Babbidge Scholar, 4x College of Engineering Dean's List
- Relevant Coursework: Data Structures, Discrete Systems, Systems Programming, Algorithms & Complexity, Cybersecurity Lab, Computer Architecture, Intro to AI, Big Data Analytics, Principles of Databases

EXPERIENCE

Software Engineering Intern — May 2024 – Present
Pratt & Whitney — *East Hartford, CT*
- Refactored frontend code using VueJS, enhancing maintainability and reusability, drastically reducing the time needed to develop new AWS Lambda scripts
- Developed and deployed 3 Python/pandas report generation tools to AWS Lambda, all whilst collecting feedback from stakeholders and continously improving the tools
- Practiced Git, GitHub, and Scrum Agile methodologies to streamline team workflows and improve efficiency
- Acquired in-depth knowledge of the team's AWS cloud production architecture and completed AWS Cloud Essentials training

PROJECTS

Circlegame | *Full-Stack + Game Design* — May 2022 – Present
- Developed a minimalistic aim trainer using the MERN development stack (MongoDB, Express, Node, React)
- 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

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

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
- Implemented a Python program for web-scraping, aggregating, and structuring data from multiple sources
- Created interactive dashboards for visualizing team performance metrics and trends

CERTIFICATIONS

IBM Full Stack Software Development | *Coursera* — August 2023
- Completed 12 courses on the fundamentals of Cloud Computing and Full Stack Software Development
- Developed full stack applications using frameworks such as React, NodeJS, and Django
- Learned how to utilize essential developer tools such as Git, Docker, and Kubernetes
- Enhanced knowledge on programming languages such as HTML, CSS, JavaScript, Python, and SQL

Google Data Analytics | *Coursera* — August 2023
- Learned key analytical skills such as data cleaning, analysis, and visualization
- Learned how to use essential analytic tools such as spreadsheets, SQL, R Programming, and Tableau

TECHNICAL SKILLS

Languages: Python, Java, C, R, SQL, HTML, CSS, JavaScript
Frameworks: React, Node.js, Express.js, Django, Flask, WordPress, Vue.js
Developer Tools: Git, GitHub, Docker, Kubernetes, Agile, Scrum, AWS S3, AWS Lambda, AWS Cloudformation
Libraries: PyTorch, NumPy, pandas, Matplotlib, PDF-LIB.js, p5.js, Processing