

SPENCER YATES

Software Engineer

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Objective

Motivated College Graduate seeking Software Engineering entry-level position. Eager to use both software development knowledge and technical skills with hands-on robotics experience to work innovative projects and create a better future.

Areas of Expertise / Qualifications

- Scrum & Agile Methodologies • TypeScript • Dart & Flutter SDK • Java • Python • C++ • Software Design
- Project Management • Test-Driven Development • Computational Critical Thinking • Accomplished Problem Solver
- Proficient Troubleshooter • Effective Communicator • Adaptable/Flexible • Strong Leadership Skills • Team Player

Software Engineering Experience

IT Service Desk Technician/Intern

Global Business Solutions

Newport, Kentucky
April 2023 – May 2024

- Successfully provided IT support to over 15,000 end users, quickly diagnosing and solving hardware, software, and network issues under high pressure conditions minimizing downtime.
- Collaborated with technical teams to identify and resolve complex systemic challenges to optimize IT processes.

Founder & Leader – NUKE Robotics

Northern Kentucky University (NKU)

Highland Heights, Kentucky
August 2020 – May 2023

- Founded, organized, and expertly led a Collegiate competitive robotics organization to four tournament championships and a division finalist at the world championships.
- Competently executed multitasking roles as team project manager, and software developer using C++ to create and troubleshoot advanced movement control algorithms and autonomous routines improving robotic performance.

Front-End Developer – SpoilerGuard (Wikipedia Application)

NKU Senior Capstone Project

May 2024

- Efficiently designed, developed, and prototyped all front-end features for a cross-platform spoiler-free wiki app (SpoilerGuard) using Dart and Flutter ensuring a user-friendly successful interface on iOS and Android systems.
- Adeptly employed Figma to create detailed design prototypes, guiding the development process with a focus on usability and aesthetics.
- Conducted front-end testing ensuring seamless user experience across both mobile platforms and in an Agile environment executed team collaboration contributing to sprint planning and reporting to the Scrum Master.
- Received positive compliments for time management, multitasking, organizational, and communicative skills.

Robotics Mentor

Ignite Institute

Erlanger, Kentucky
August 2021 – May 2023

- Successfully mentored high school robotics teams, assisting students in learning C++ programming, teaching fundamental skills, and guiding them in learning advanced algorithms and code refinement/optimization.
- Assisted teams in preparing engineering notebooks, developing competitive strategies, and building collaborative working environments.
- Recognized for significantly contributing to the Teams notable accomplishments of 1 World Championship, 2 World Championship qualifications, 6 Signature Event wins, and 2 Kentucky State Excellence Awards.

Full-Stack Portfolio Website

June 2024

- Designed, developed, tested, and documented a comprehensive portfolio website with a functional administration panel, using ReactJS, Tailwind CSS, and Next.js creating a visually appealing user interface to showcase personal projects and skills.
- Deployed the website on Vercel to ensure fast load times and reliable performance and used Supabase to create a robust and secure back-end features for content management.

Team Member – EcoTrack Website

NKU Back End Development Class

December 2023

- Developed a dynamic forum website using PHP, HTML, CSS, and a MySQL backend to include implementing user authentication, enabling account creation, post submissions, comment functionality, and editing posts to facilitate the sharing of eco-friendly ideas.
- Established and added administrative features to allow user management, content moderation, and creation of additional admin users, and then collaborated entire effort with a peer to design and code both front-end and back-end components ensuring full website functionality.

Team Lead – Tetris Game Refactoring Project

NKU Software Design Class

December 2023

- Successfully led a team, functioning as Scrum Master, in refactoring and redesigning a preexisting Python Tetris game resulting in both improved code structure and applied software design principles.
- Authored project requirements using user stories to guide development and ensure alignment with project's objectives, and ensured team adhered to Agile practices while facilitating weekly sprint planning and retrospectives.
- Designed and implemented integration, regression, and acceptance tests, ensuring the refactored code met all functionality and quality standards while simultaneously successfully identifying and removing code smells, enhancing code readability, maintainability, and performance.
- Expertly presented the final project to mock investors (classmates) and the professor, showcasing improvements and demonstrating software design patterns, receiving high praise for effective communications.

Team Member – Cross-Platform Calculator Project

NKU Cross Platform Development Class

December 2023

- Collaborated with a team to develop a cross-platform calculator app compatible with Android and Windows, utilizing Dart and Flutter.
- Developed key features, including a real-time currency converter that integrated with an online API, and a unit converter that leveraged a Dart library for precise calculations.
- Created unit tests to validate feature functionality, ensuring code reliability and performance.
- Participated in weekly Scrums, sprint planning, and retrospectives to ensure iterative progress and team alignment, and contributed to UI/UX design, enhancing user experience across both platforms.
- Developed key documentation for features to ensure clear understanding of functionality, usage guidelines, and integration processes for future developers and end users.

Education

Northern Kentucky University

B.S. in Applied Software Engineering - Major GPA: 3.4

Highland Heights, Kentucky

August 2019 – May 2024

Honors

Eagle Scout (Boy Scouts of America)

2010 – March 2019