

Joseph Kurtz

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Education

The Pennsylvania State University College of Engineering <i>Bachelor of Science in Computer Science</i> GPA: 3.77/4.00 Dean's List Big Ten Distinguished Scholar Award & Academic All-Big Ten Penn State Wrestling Academic Excellence Award	University Park, PA <i>Graduated May 2023</i> Fall 2019 – Fall 2022, Spring 2023 Fall 2020 – Fall 2021 Fall 2020
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Skills

- Programming Languages: JavaScript, React.js, Express.js, SQL, HTML, CSS, Python, C

Work Experience

Computer Management & Marketing Associates <i>Software Engineer Intern</i>	Bethlehem, PA June 2023 – September 2023
<ul style="list-style-type: none">○ Strengthened the performance and functionality of a school application written in Microsoft Access.○ Optimized the system's data-import process by streamlining the code and improving data verification methods by utilizing SQL and VBA programming languages.○ Enhanced the application's user experience by meticulously documenting its purpose and functionality to facilitate more intuitive navigation.	
<i>Computer Technician Intern</i>	June 2022 – August 2022
<ul style="list-style-type: none">○ Overhauled a campus-wide fleet of computers in preparation for the upcoming academic school year by resetting and reconfiguring systems using PowerShell.○ Crafted the plans to reconfigure the hundreds of computer operating systems effectively and efficiently within a short timeframe.○ Supervised and guided a small team of computer technicians.	

Projects

Full-Stack Web Application <i>Full-Stack Software Engineer</i>	Easton, PA August 2023 – October 2023
<ul style="list-style-type: none">○ Showcased expertise in full-stack engineering by developing a secure To-Do-List web application utilizing MySQL, React.js, Express.js, and Node.js.○ Established the data store for the application by implementing a normalized SQL database.○ Developed the front-end and user interface using React.js, HTML, and CSS.○ Implemented an API connection between the front-end and back-end using Express.js.○ Ensured user-security and sensitive data protection by implementing features like JSON-Web-Tokens, session information, and encrypted passwords by utilizing Passport.js and the Node.js crypto library.○ Launched the application on Amazon Web Services (AWS) through domain acquisition, certificate procurement, and hosting on an EC2 instance seamlessly linked via an Application Load Balancer.	
Virtual Memory Manager Group Project <i>Systems Software Engineer</i>	University Park, PA November 2022 – December 2022
<ul style="list-style-type: none">○ Engineered a virtual/physical memory manager, incorporating paging implementation and two replacement policies, utilizing the C programming language.○ Executed the code to establish, modify, and remove the linked lists, allocate space for the pages, and implement the "First In, First Out" and "Third Chance Replacement" replacement policies.	

Extra-Curricular Activities

Penn State Division 1 Wrestling <ul style="list-style-type: none">○ Competed for the number 1 nationally ranked NCAA Division 1 wrestling team.
Penn State Navy ROTC <ul style="list-style-type: none">○ Attained the distinction of ranking 3rd in my class through years of holding leadership positions, including serving as a squad leader, where I directed and supervised a team of more than 10 midshipmen.