

# Joseph Kurtz

Email: [jspkurtz@gmail.com](mailto:jspkurtz@gmail.com) | LinkedIn: [linkedin.com/in/josephskurtz](https://www.linkedin.com/in/josephskurtz)

## Education

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

## Skills

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

## Work Experience

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

## Projects

<b>Full-Stack Web Application</b>	<b>Easton, PA</b>
<i>Full-Stack Software Engineer</i>	August 2023 – October 2023
<ul style="list-style-type: none"><li>○ Showcased expertise in full-stack engineering by developing a secure To-Do-List web application utilizing MySQL, React.js, Express.js, and Node.js.</li><li>○ Established the data store for the application by implementing a normalized SQL database.</li><li>○ Developed the front-end and user interface using React.js, HTML, and CSS.</li><li>○ Implemented an API connection between the front-end and back-end using Express.js.</li><li>○ 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.</li><li>○ 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.</li></ul>	
<b>Virtual Memory Manager Group Project</b>	<b>University Park, PA</b>
<i>Systems Software Engineer</i>	November 2022 – December 2022
<ul style="list-style-type: none"><li>○ Engineered a virtual/physical memory manager, incorporating paging implementation and two replacement policies, utilizing the C programming language.</li><li>○ 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.</li></ul>	

## Extra-Curricular Activities

<b>Penn State Division 1 Wrestling</b>
<ul style="list-style-type: none"><li>○ Competed for the number 1 nationally ranked NCAA Division 1 wrestling team.</li></ul>
<b>Penn State Navy ROTC</b>
<ul style="list-style-type: none"><li>○ Attained the distinction of ranking 3<sup>rd</sup> 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.</li></ul>