

# CAMERON W. LEE

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## EDUCATION

<b>Purdue University, College of Engineering</b> <i>Bachelor of Science, Electrical and Computer Engineering</i> Major: Computer Engineering	<b>West Lafayette, IN</b> <b>May 2024</b> GPA: 3.50
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## PROFESSIONAL EXPERIENCE

<b>eHealth Research Team (Moved to Professional Development at Purdue University)</b> <i>Database Management/Security – App Development – Web App Development</i>	<b>West Lafayette, IN</b> <b>August 2023 – May 2024</b>
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- Worked with full time Software Engineers in Purdue University's TAP team to create a health assessment mobile app that helps medical professionals and paramedics treat patients
- Led the transition from a disorganized MongoDB to an optimized HIPAA ensured MySQL database that effectively secured patients' health information
- Utilized Blazor framework to design and deploy functional web pages: patient, medic, and organization portals

<b>Vector Controls Inc.</b> <i>Engineering Intern</i>	<b>Newton, MA</b> <b>May 2021 – August 2023</b>
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- Applied electrical instruments and circuit analysis to test 200+ motherboards and diagnosed faulty components
- Tested a variety of 300+ marine vehicle navigation components: joysticks, levers, helms, sensors, gauges, hydraulics, LCDs, and engine controllers
- Conducted 20+ full system boat evaluations, assembling levers, helms, LCDs, motherboards, and hydraulics, and utilized electrical tools to further verify full system functionality as a whole before sending to customers

## PERSONAL PROJECTS

<b>League of Legends Chat Bot</b> <i>Creator</i>	<b>October 2024</b>
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- Engineered machine learning neural networks to classify optimal strategies for any game scenario using high-level League of Legends data and statistics
- Leveraged OpenAI's Natural Language Processing (NLP) and prompt engineering to generate detailed and tailored responses aimed to improve player performance

<b>League of Legends Website</b> <i>Creator</i>	<b>September 2024</b>
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- Developed and launched a web application using React as frontend, Python and Flask as backend, and an SQL database to display League of Legends statistic averages and visuals to guide users towards further improvement
- Compiled user' data to calculate average performance metrics and compared them to professional benchmarks, providing personalized feedback to enhance individual skills and performance
- Established a full system entirely managed and operated in AWS to provide constant reliability and accessibility

<b>Discord Bot</b> <i>Creator</i>	<b>August 2024</b>
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- Developed a custom Discord Bot utilizing Discord as a frontend, Python in the backend, and data stored in an SQL database that displays League of Legends game statistics that is tailored to suggest improvement to players
- Integrated with Riot Games APIs to fetch up to date data and store it in a secure MySQL database, which is used to update and deliver information based on user requests
- Hosted Discord Bot and MySQL database on Google Cloud to ensure its 24/7 availability for an active community of 250+ members resulting in a 10% average improvement in individual gameplay

## LEADERSHIP AND INVOLVEMENT

<b>Boston Hurricanes</b> <i>Volleyball Clinic Coach/Active Volunteer</i>	<b>Boston, MA</b> <b>July 2019 – August 2024</b>
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- Coached groups of 30+ athletes, initiated and led organized drills and activities, provided tailored feedback and encouragement
- Mentored and guided athletes, cultivating a supportive and positive learning environment

## RELEVANT SKILLS

- Electrical Instruments: Digital Multimeters, Power Supply, Oscilloscopes, Signal Generators
- Programming: Python, C, C++, C#, MATLAB, Git/Github, SQL, Blazor, React, Javascript, .NET, HTML, CSS