

Kaylee Bae

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EDUCATION

University of Tennessee, Knoxville, Tickle College of Engineering

Knoxville, TN

Honors Bachelor of Science in Computer Science

May 2026

- Minor: Heath Integrated Business and Engineering
- Dean's List (Fall 2022 - Fall 2023)

GPA: 4.0/4.0

SKILLS

Proficient Languages: Python, C++, JavaScript, TypeScript, Java, SQL, HTML, CSS, PHP

Technologies: Angular, React, Next.js, Node.js, Figma, MongoDB

Development Tools: Git, GitHub, GitLab

PROFESSIONAL EXPERIENCE

Oak Ridge National Laboratory

Oak Ridge, TN

Full-Stack Web Developer Intern

August 2023 - December 2023

- Designed a 'Viewer Page' using **Leaflet** layers and **TypeScript** to visualize data stored in a **PostgreSQL** database on an **Angular** web application for the National Household Travel Survey
- Piloted an automated email system employing **JWT tokens** and **PHP Mailer** to save administrators 20+ minutes biweekly and accommodate greater Internet traffic
- Developed, maintained, and tested 15+ components built on **HTML & CSS**, **TypeScript**, **JavaScript**, and **PHP** with **MAMP**, **Visual Studio Code**, **Node**, and **XDebug**

Oak Ridge National Laboratory

Oak Ridge, TN

Data Analytics Intern

May 2023 - July 2023

- Processed **GeoJSON** transportation network data across 11 states by designing 150+ line **Python** scripts and the **GeoPandas** library
- Reduced 4 hours of manual data compilation per month to 12 seconds by automating the compilation of geospatial data sets using **ArcGIS REST APIs**
- Presented research to 100+ researchers at the Oak Ridge National Laboratory Intern Symposium and the University of Tennessee, Knoxville Summer Research Scholars Symposium

PROJECTS

Mission of Hope

Knoxville, TN

Developer

January 2023 - Present

- Volunteered with a team of 7 other Hack4Impact developers to create an internal inventory management web application for a local nonprofit organization applying the **MERN (MongoDB, ExpressJS, React, Node)** tech stack
- Contributed to weekly meetings following the **Scrum** framework of **Agile** development to complete project deliverables

AWARDS

- Oak Ridge National Laboratory - Artificial Intelligence in STEM Undergraduate Scholarship Winner (2023)
- National Merit Scholar Finalist - Merit Scholarship, Provost Scholarship Recipient (2022)

LEADERSHIP & INVOLVEMENT

Mentor | Engineering Leadership Team | Knoxville, TN

January 2023 - Present

- Coordinated monthly professional events for 206 first-year engineering students in the Living & Learning Community

Vice President | Asian American InterVarsity | Knoxville, TN

August 2022 - Present

- Collaborated with 3 other leaders to grow club membership and engagement by over 110 percent from the previous year