

Eugene Zhang

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SUMMARY

Undergraduate Student at Purdue University double majoring in Computer Science and Mathematics, with a minor in Economics. Strong background in API and applications programming, software engineering, image processing in machine learning. Enjoys solving problems with unique approaches and collaboration.

EDUCATION

Purdue University

West Lafayette, IN, US

*B.S. in Computer Science, Mathematics, Minor in Economics; **GPA: 3.9/4.0***

Aug 2025 – est. May 2027

Relevant coursework: ML & Data Mining, Database Systems, Intro to AI, Software Engineering

Distinctions: John Martinson Honors College

West Lafayette Jr/Sr High School

West Lafayette, IN, US

*High School Diploma; **GPA: 3.9/4.0***

Aug 2021 – May 2025

Distinctions: Academic Honors, Magna Cum Laude

Note: Many Purdue courses taken dual-credit, e.g., DS&A, Analysis of Algorithms, Real Analysis, Probability

SKILLS

Programming Languages: Java, Python, HTML/CSS/JavaScript, C/C++, Ruby, SQL, R

Technologies: Django, Ruby on Rails, Node.js, MySQL/PostgreSQL, Git, Docker, AWS, OCI, Vim, Linux, UNIX, OpenCV, PyTorch, TensorFlow, various APIs

Methodologies: OOP, Functional & Procedural Programming, Agile, Scrum, Data-Oriented Design, FOSS, Fullstack

Languages: English (native), Chinese (proficient), German (proficient)

EXPERIENCE

CERIAS at Purdue University

West Lafayette, IN (Hybrid)

Research Assistant

May 2026 – Present

- Exploring agentic applications to security workflows in MxDR and other Microsoft-based IT infrastructure.
- Implemented and expanded methods to log a multi-agent system and augmenting the system's security by analyzing the log to respond to potential security incidents.
- Learning about event correlation and security in software and cloud corporate systems.

Purdue College of Food Science

West Lafayette, IN

Research Assistant

Sep 2025 – Jun 2026

- Worked under the supervision of [Dr. Yuan Yao](#) and exploring NLP, LLM embeddings, RAG-based agentic systems, and image processing in context of food innovation and scientific literature in the food science field.
- Implemented data/image processing models to process assets in various scientific literature.
- Created an experimental agent to research, recall, and transform food science literature into commercial and industrial food innovation.

BiGGDev

Remote

Software Developer

Jun 2020 – Present

- Co-founded a software development team with various peers to streamline collaborative SD efforts.
- Developed interactive Python and web application using API from Discord, YouTube, Hypixel, Google, and more, including GreatStudier-Rewrite (refer to Notable Projects).
- Consulted multiple clients in various user domains and needs, including customer relations and communications. Designed and provided original software solutions, employing various collaborative methodologies such as FOSS.

Sledgehammer Infosystems

West Lafayette, IN

Software Engineering Intern

Jun 2023 – May 2025, Internship

- Gained significant experience in fullstack development and DMBS integration (PostgreSQL) into client-user interaction, particularly using Ruby on Rails, an MVC-based web framework. Also gained experience in open-source development and extensive collaboration using technologies like Git version control.

- Contributed to web and API projects including Gatherpack (refer to Notable Projects).
- Built lasting critical thinking skills in using documentation & other resources to solve new and unfamiliar problems, adapting to new systems and frameworks.

Kumon North America, Inc.

West Lafayette, IN

Kumon Method Assistant

May 2021 – Oct 2024, Part-time

- Co-taught 120+ K-12 students in the Kumon method, a well-known educational paradigm that helps students excel academically.
- Tutored various writing, reading, and mathematics topics up to college-level difficulty (e.g. linear algebra).
- Assisted in personalizing and curating reading and mathematics curricula for tens of students.

AWARDS & ACHIEVEMENTS

National Merit Scholarship Finalist & Winner: Represented by ~8,000 students selected from ~15,000 Finalists (top 1% of PSAT scorers) who demonstrate greatest potential in rigorous college studies and beyond. (Jun 2025)

Presidential Scholar, Purdue University: One of the most prestigious scholarship awards at Purdue. Notable aspects of consideration include exceptional academic achievement, leadership/service in school/community. (Jan 2025)

National Honors Society (NHS): A prestigious U.S. high school organization recognizing students for excellence in Scholarship, Leadership, Service, and Character. Volunteer-tutored several students. (Sep 2024 – May 2025)

President of Student Council: Elected by student body to organize class events, fundraisers, and legacy projects. Represented student body in community organizations including [WLSEF](#). (Aug 2021 – May 2025)

AIME Qualifier (x3): Chosen by high AMC10 & 12 exam score percentile (top 2.5% and 5%, respectively), a significant marker for remarkable problem solving skills. (2022 – 2024)

NOTABLE PROJECTS

Gatherpack | [Get Together With Gatherpack](#)

Team Contributor

- **A practical team management and logistics application.**
- Contributed to several user features such as time sheets, labeled badges, calendar & events, and announcements.
- Worked with fellow developers to enhance and maintain DBMS and other backend components such as data validation in table entries, tokens, and automated user functionalities including scripts, hooks, and shortcuts.

Rowdy (FRC461 Robot Code) | [GitHub](#)

Lead Developer & Team Vice President

- Built lasting legacy software for long-term team sustainability. Over four annual iterations of robot code and 2000+ signed, verified commits (Rowdy22-25), the development of robot code using the Java FRC framework includes implementations in computer vision processing, automation in control, kinematics, system optimization, telemetry, and more. Rowdy23-25 robots competed at world championships in Houston.
- Developed & maintained web & API apps including the team website & database, and FRC game data miner.
- Took part in CAD and fabrication of human-sized robots to compete in annual FRC games.
- Taught 40+ teammates about programming (Java, Python, algorithms) and critical thinking in robot coding.

WL Hack Club | [Our Website](#)

Treasurer & Executive Officer

- Carried out our mission to bring CS exploration to as many students as possible. Planned weekly original workshops (Pygame, JS, Ruby) with fellow executives to show the various meanings and passions of software and CS.
- Organized bi-annual all-day hackathons and taught in hackathon workshops for middle-and-high school students. Facilitated and judged tens of project entries (games, application programs, AI-based, art). Advertised and brought attention to the hackathon which resulted in 60+ registrants.
- Raised over \$3500 for club funding, hackathon expenses, and sponsorships & other educational opportunities for club members, like coding camp with CodingMind Lafayette Commerce.

CERTIFICATIONS

Note: All certification verifications can be found on my LinkedIn page.

Oracle | *OCI 2025 Certified Foundations Associate*

Feb 2026

CITI Program | *Responsible Conduct of Research (RCR) - Undergraduate Course*

Sep 2025

Purdue University | *Youth Protection Training*

Sep 2025

ORGANIZATIONS

Society of Asian Scientists and Engineers (SASE)

Jan 2026 – Present

Student Member

HOBBIES/PERSONAL INTERESTS

Tennis, Pickleball, Church, Worship, Acoustic/Electric Guitar, Piano, Violin, FPS Games