

# Peter J. Henwood

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## EDUCATION

**Purdue University** | West Lafayette, IN

Expected Graduation: May 2026

*Bachelor of Science in Computer Science; Bachelor of Science in Math (GPA: 3.47)*

Relevant Coursework:

- **Computer Science:** Systems Programming, Software Engineering I, Intro to Cryptography, Data Structures & Algorithms, Computer Architecture, Problem Programming in C, Solving Object Oriented Programming, Foundations of CS
- **Math:** Probability, Intro to Statistics, Ordinary Differential Equations, Linear Algebra I & II, Multivariate Calculus, Calculus II

**CEA CAPA Education Abroad** | Sydney, Australia

May - July 2023

- Coursework included Intercultural Communication, and Analyzing and Exploring the Global City: Sydney
- Solved problems in unfamiliar settings, established rapport in a culturally diverse environment, and organized expeditions

**Chatham High School** | Chatham, NJ

Aug 2017 - Jun 2022

*High School Diploma (GPA: 4.11)*

- AP Courses: Calculus AB, Macroeconomics, Microeconomics, Physics 1, Computer Science A, Spanish
- 2<sup>nd</sup> Place Finisher: 2021 National “Thomas Edison Pitch Contest”; Varsity Member of Cross Country, Track and Field and Fencing

## WORK RELATED EXPERIENCE

**Financial Software Development Intern** | Rebar Systems

Jun - Aug 2024

- Developed functionality to retrieve more granular trade details to support enhanced trade analytics for Rebar’s OEMS platform
- Developed a Java based application to handle API calls made by Postman to efficiently retrieve data from a MongoDB database
- Added authentication to REST API calls using a directory access protocol to validate credentials against an active directory
- Led feedback-driven meetings to present progress as well as discuss future features and improvements

**Student Body Senator** | Harrison Hall Club

Aug - May 2023

- Elected as a student body leader; managed the dorm budget and planned community building events for Harrison Hall residents
- Actively participated in decision-making and budget prioritization to create a positive living experience for all residents

**Camp Counselor** | Camp Winona, Rock Climbing and Archery Instructor

Jun - Aug 2022

- Created a positive learning environment that fostered outdoor skills, teamwork, and character development for campers aged 13-15
- Planned activities, tailored climbing and archery instruction based on skill level, and provided mentorship and support to campers
- Communicated and collaborated with peers on daily activities and adhered to safety protocols including lifeguard duties

**Rock Climbing Instructor** | Gravity Vault in Chatham NJ

Sep 2021 - Jun 2022

- Part-time instructor teaching climbing techniques, coaching guests, ensuring safety, and leading group events and parties.

## PROJECTS

**Simple C to Assembly Compiler Project** | C, Assembly, Lex, Yacc

Fall 2023

- Wrote a compiler program using Lex and Yacc to translate C code into computer instructions in assembly code
- Demonstrated lexical analysis and syntax parsing to translate features such as global and local variables, loops, and “if statements”

**Time Capsule App** | React Native

Spring 2024

- Created a social media app that used AI to auto-create a collage of your best six photos from the last month, without user action
- The app included various features for creating the collage, such as saving to the camera roll, sharing to friends, and history.

## SKILLS / OTHER

- Coding Languages: C, Java, Python, Assembly, LATEX
- Tools: GitHub, IntelliJ IDEA
- Hackathons: Developed a multi-player chess application during BoilerMake X
- Soft Skills: Detail-orientated, critical thinking, problem-solving, curious, planning, collaboration, and communication
- Interests: Triathlons, Running, Basketball, Golf
- Other: Lived abroad for 10 years in London and Hong Kong; Intermediate Spanish