

Luke Hartzell

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EDUCATION

Georgia Institute of Technology

Atlanta, GA

Bachelor of Science in Computer Science, GPA: 4.0/4.0

Expected Dec. 2025

- Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Program Design, Objects and Design, UI/UX, Educational Technology
- **Teaching Assistant:** Object-Oriented Programming

EXPERIENCE

Interview Prepper

May 2025 – Present

Founder & Product Lead

Remote

- Drove product growth 1k+ users and 3M+ impressions by leading a data-driven marketing strategy that leveraged social media trends and detailed user behavior analysis for targeted outreach campaigns.
- Boosted engagement by 21% and retention by 16% by executing strategic feature launches, using A/B testing and analytics to prioritize high-impact updates for the platform.
- Increased user retention during the recruiting off-season by identifying a key engagement gap and launching daily, habit-forming minigames, cultivating a core group of 30+ power users.

Amazon

May 2025 – Aug. 2025

Software Development Engineer Intern, AWS Mechanic Core

Seattle, WA

- Delivered a highly requested, event-driven data pipeline using Java and AWS Kinesis, unlocking new analytics capabilities for the incident analysis team and streamlining their review process.
- Strengthened system reliability across global regions by developing a Java service to process event logs and a Python Lambda to filter and route events with availability risks, protecting downstream services.
- Drove architectural alignment for an interconnected system of AWS services by authoring in-depth design documents and leading technical design reviews with senior engineers to ensure long-term maintainability.

Chamberlain Group

May 2024 – Aug. 2024

Software Engineering Intern

Chicago, IL

- Improved developer velocity and feature release cadence by cutting end-to-end test execution time by 62% after designing and implementing a new Playwright automation framework.
- Protected 10M+ users by discovering and escalating 2 critical bugs, analyzing their production impact on core application functionality to ensure a seamless user experience.

PROJECTS

Georgia Tech VIP – AI Makerspace Nexus

Aug. 2024 – Present

Software Engineer & Product Manager

Atlanta, GA

- Led product design of an AI lecture assistant on NVIDIA's supercomputer, increasing accessibility for 20,000+ students and standardizing instructor workflows by translating pain points into PRDs.
- Built modular OCR, summarization, and tagging pipelines that automated file digestion and delivered real-time course context by introducing event-driven ingestion, resilient retries, and a consistent schema to support scale.
- Ran Agile sprints and roadmap planning for a cross-functional team, driving adoption across departments by hosting hands-on trainings, authoring prompt recipes and usage guides, and publishing clear release notes to close the loop.

Georgia Tech VIP – Intelligent Tutoring

Jan. 2024 – May 2024

Software Engineer & Product Manager

Atlanta, GA

- Shipped AI tutoring modules for Data Structures & Algorithms that improved practice completion and feedback turnaround by prioritizing adaptive quizzes and embedded real-time coding feedback within course workflows.
- Integrated a LLaMA-based course chatbot to deliver instant answers during assignments, using reusable prompt templates, safety guardrails, and an evaluation rubric to maintain accuracy and a helpful instructional tone.
- Owned roadmap, success metrics, and team rituals for a four-person group, delivering features on schedule by running iterative Agile cycles, conducting user tests, and making data-informed prioritization calls.

TECHNICAL SKILLS

Languages: Java, JavaScript, Python, C, SQL, HTML/CSS, Lua, Kotlin

Product & Design: Figma, Vercel v0, A/B Testing, User Analytics

AI & Cloud: AWS (Lambda, Kinesis, CloudWatch), LLM Integration, Prompt Engineering, Google Vertex AI, LLaMA

Web & Testing: React, Node.js, Playwright, Bootstrap, Cucumber, Firebase

Developer Tools: Git/GitHub, Visual Studio, Cursor, Vercel v0, Claude, Android Studio, DevOps, TestRail, Jira