# 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):** Supported a 900-student course via weekly recitations and office hours; authored grading rubrics and automated test cases to improve feedback turnaround; delivered ~30-student weekly review sessions and actively answered student questions on class forum

## EXPERIENCE

**Interview Prepper**                                               May 2025 – Present
*Founder & Product Lead*                                                  *Remote*
- Designed and launched Interview Prepper from 0→1, building the full product flow from resume upload to personalized prep plan, and iterating through early pilots informed by interviews with **5 recruiters** and **1 PM**
- Owned product strategy and execution end-to-end: drafted PRDs, prioritized MVP features, coordinated design and engineering tradeoffs, and shipped a working platform used by **1k+** job seekers
- Identified an off-season engagement drop via cohort analysis; shipped habit-forming daily mini-games and iterated with A/B tests → **+21% session frequency, +36% L28 retention** across **1k+ active users** (90 days)

**Amazon**                                                       May 2025 – Aug. 2025
*Software Development Engineer Intern, AWS Mechanic Core*                 *Seattle, WA*
- Owned PRD and design review for an event-driven incident analytics pipeline (Java, Kinesis) to accelerate on-call triage; aligned **Engineering + Leadership + Service Reliability** on data contracts and maintainability
- Delivered a Java log processor and Python Lambda routing layer to filter noisy events and protect downstream services; targeted team KPIs around on time-to-triage and detection coverage

**Chamberlain Group**                                            May 2024 – Aug. 2024
*Software Engineering Intern*                                            *Chicago, IL*
- Designed and implemented a Playwright + Cucumber automation framework, **cutting end-to-end test runtime 62%** (−56s/run) and improving release cadence
- Protected 10M+ users by escalating **2 critical bugs**; partnered with QA/PM on risk analysis and hotfixes

## PROJECTS

**TikTok AR Filters**                                             Jan. 2024 – Present
*Creator*                                                                *Remote*
- Developed viral AR effects using visual scripting and procedural design, amassing **13B+ views and 35M+ posts**
- Leveraged trend analysis and user data to inform rapid prototyping

**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 to standardize instructor workflows and improve access by translating discovery insights into PRDs; partnered with **Engineering + Product + UX**
- Built modular OCR, summarization, and tagging pipelines with event-driven ingestion to deliver real-time course context at scale; drove adoption via trainings and usage guides. **Piloted in 2 sections (~160 students)**

**Georgia Tech VIP − Intelligent Tutoring**                      Jan. 2024 – May 2024
*Software Engineer & Product Manager*                                    *Atlanta, GA*
- Shipped adaptive quizzes and inline coding feedback to address feedback-latency bottlenecks in DSA coursework
- Integrated a LLaMA-based course chatbot with reusable prompt templates, safety guardrails, and an evaluation rubric to maintain accuracy and tone; owned roadmap, success metrics, and user testing for a four-person team

## TECHNICAL SKILLS

**Languages**: Java, JavaScript, Python, C, SQL, HTML/CSS, Lua, Kotlin
**Product & Design**: PRDs, User Research (interviews, think-aloud, affinity mapping), A/B Testing, Metrics Guardrails, OKRs, Figma
**AI & Cloud**: LLM Integration, Prompt Engineering & Safety, OCR/Summarization, Gemini & Vertex API, AWS
**Web & Testing**: React, Node.js, Playwright, Bootstrap, Cucumber, Firebase
**Developer Tools**: Git/GitHub, Visual Studio, Cursor, Copilot, Android Studio, DevOps, TestRail, Jira