

ADDISON W. GOOLSBEE

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EDUCATION

Yale University, New Haven, CT

Expected Graduation: May 2025

Bachelor of Science in Computer Science | GPA 3.88

Coursework: Operating Systems, Networked Systems, Embedded Systems, Systems Programming, Data Structures, Algorithms, Digital Systems, Object-Oriented Programming, Machine Learning, Linear Algebra

TECHNICAL SKILLS

Proficient: Java, Python, JavaScript/TypeScript, C/C++, AWS, React/React Native, Git, Docker, HTML/CSS, Unix, Linux, Bash scripting, Graphic Design, Firebase, REST APIs, SQL, NoSQL, ORMs, Express.js, Stripe, Unity, Heroku, Postman, Agile, CI/CD, networks, mobile development (iOS/Android), full stack development

Familiar: Rust, Assembly, Swift, Lua, Racket (Lisp), Photoshop, CAD, Ancient Egyptian Hieroglyphs

WORK EXPERIENCE

Amazon *Software Development Engineer Intern*

May 2024 – August 2024

Book Rewards & Promotions, Books & Kindle Content

- Created full stack solution to automate the creation and lifecycle of Amazon.com books promotions using React, AWS Lambda, DynamoDB, CloudFormation & others, saving 70 software development days annually
- Met frequently with future end-users and key stakeholders to ensure quality and incorporate feature requests
- After finishing ahead of schedule, added audit capabilities, automatic alarms, and thorough documentation
- Designed robust, scalable solution from scratch, leveraging existing codebases when possible

Parsons Corporation (BlackHorse Solutions) *Software Engineering Intern*

June 2023 – August 2023

Cybersecurity & intelligence subsidiary of \$6b defense and infrastructure engineering firm

- Developed a universal CLI generator for APIs using FastAPI, Typer, & Docker (10-wk project done in 2.5 wks)
- Created 150+ comprehensive unit & integration tests using Pytest & Robot Framework (using JIRA methods)
- Collaborated with a team of 3 to develop network, browser, and hardware cybersecurity tools and practices, and set up specialized security servers (controlled information)

Computer Architecture and Security Lab *Research Assistant to Professor Jakub Szefer*

July 2022 – Present

- Developed computer vision scripts to index visual parameters of video files and modify the videos to match desired specifications. Used methods to determine the video a user watches using only power consumption data

NorthStar Wearable Technology *Software Engineering Intern*

June 2022 – August 2022

University of Chicago: TMW Center startup developing wearable NLP device for children's cognitive development.

- Developed Cypress scripts to automate API endpoint testing via CRUD operations. Designed 300+ tests
- Performed thorough QA testing for both frontend and backend sides; found 80+ bugs/security flaws

SELECTED PROJECTS AND EXTRACURRICULARS

Yale Butteries *(available on the App Store)*

October 2021 – Present

Frontend: React Native with TypeScript and Redux. Backend: PostgreSQL, Express.js, Prisma

- Lead the creation and development of the food ordering app for all 14 residential college butteries (snack shops)
- Prototype won first place at Yale Co-Create Hackathon 2021
- Implemented Stripe payments, CAS login, Docker, endpoints, deployment/hosting, and many other features
- Recruited and managed seven-person team to build out the app

Yale Computer Society *President, Advisor*

May 2023 – Present

- Elected president of Yale's largest computer science organization (200+ members)
- Guided and oversaw the development of ten project teams such as coursetable.com, three were newly created
- Created YCS Catalyst pipeline program for inexperienced developers to learn software engineering
- Created the first sponsorship program and secured funding from companies like Bloomberg and Jane Street
- Built the organization's website yalecomputersociety.org