

Austin Adams

116 Brookhaven Lane
Holly Springs, GA 30114
☎ +1 (678) 294 0149
✉ me@austinjadams.com
📄 austinjadams.com
📄 github.com/ausbin

Objective

Find a full-time software development job starting in spring 2019

Education

- August 2016 – December 2018 (expected) **Georgia Institute of Technology**, Atlanta, GA.
- Candidate for Bachelor of Science in Computer Science
 - GPA: 3.94/4.0
 - Threads: Theory, Systems & Architecture
- August 2014 – May 2016 **Kennesaw State University**, Kennesaw, GA.
- GPA: 4.0/4.0
 - Dual-enrolled full-time in senior year of high school

Work Experience

- August 2018 – Present **Head Teaching Assistant, CS 2110 (Intro to Computer Architecture)**, *College of Computing, Georgia Institute of Technology*, Atlanta, GA.
- Hired and managed a team of 18 teaching assistants to teach recitations and create course material (homeworks, quizzes, and timed labs) for over 300 students
 - Introduced a policy under which TAs must complete assignments at least one week in advance for review
 - Made local autograders compatible with the Gradescope cloud autograding service by writing a connector
- May 2018 – August 2018 **Software Engineering Intern**, *The Home Depot*, Atlanta, GA.
- Helped write a productivity metrics visualization dashboard written in React and Node.js for Chief Information Officer, Vice Presidents, and Directors
 - Configured and created Concourse pipelines for continuous integration and continuous deployment
 - Improved Slack bot written in Node.js which gathered information about internal applications by consuming the REST APIs of additional internal services
- August 2017 – May 2018 **Undergraduate Teaching Assistant, CS 2110 (Intro to Computer Architecture)**, *College of Computing, Georgia Institute of Technology*, Atlanta, GA.
- Held office hours to help students debug recursive assembly code, their implementations of `malloc()`, and Game Boy Advance games written in C
 - Authored “the `malloc()` homework,” in which students implement `malloc()`, and wrote new autograder based on unit tests designed for easy student debugging
 - Overhauled autograding infrastructure for class by replacing ad-hoc shell script autograders and manual grade input with a new multithreaded Python autograder capable of grading all homeworks in the class
- May 2017 – July 2017 **Software Engineering Intern**, *Urjanet*, Atlanta, GA.
- Found and fixed remote code execution vulnerability in which unsanitized user input was passed to a shell
 - Improved speed and reliability of JavaScript CasperJS scripts for scraping customers’ bills from websites of leading phone/TV providers
 - Wrote scripts for batch Jenkins job operations using the Jenkins REST API
 - Implemented automated data delivery to Amazon S3

Personal Projects

- **zucchini**, a Python autograding framework integrated with Gradescope and the Canvas Learning Management System API. Allows grading hundreds of student submissions and posting grades in minutes
- **nsdo**, a C program for GNU/Linux allowing nonprivileged users to execute applications in Linux network namespaces. Useful for isolating particular applications in VPNs
- **novice**, a TypeScript library which aims to unify the assembly debugger/autograding infrastructure across undergraduate Systems and Architecture classes. Uses an LR(1) parser to parse a common ISA-agnostic syntax
- **gong**, a web git repository viewer written in Go using libgit2

Skills

Languages	Python, Java, C, Go, TypeScript, JavaScript, C#, PHP	Frameworks	Django, React, ASP.NET MVC, Bootstrap
Operating Systems	GNU/Linux, macOS, Windows	Markup Languages	HTML, CSS, \LaTeX