

Caroline Kaufman

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EDUCATION

Tufts University, Medford, MA — Expected graduation May 2020

B.S. Computer Science, B.A. French; GPA 3.5

Spring 2019: IAU College, Aix-en-Provence, France — Diplôme de Français Professionnel avec Mention

Relevant Courses: Computation Theory, Operating Systems, Programming Languages, Data Visualization, Distributed Systems, Algorithms, Machine Structures and Assembly Language, Discrete Math, Data Structures, Web Programming

Bryn Mawr School, Baltimore, MD — June 2016

SOFTWARE ENGINEERING EXPERIENCE

Software Engineering Intern — Apple, Inc. (iOS Safari)

May - August 2019

- Planned and implemented a project to bring a feature of iOS AutoFill to MacOS, working across both platforms and multiple frameworks to achieve feature parity and improve cross-platform user experience
- Presented to team members and stakeholders within Internet Technologies division

Technologies: Objective-C, C++, Xcode, Git

Software Engineering Intern — Braintree (Business Risk)

June - August 2018

- Built and expanded an internal application for risk detection (Ruby on Rails/PostgreSQL) with a team of engineers, practicing strict test-driven development and pair programming
- Ported application to Kubernetes, decreasing production deployment times by 80%
- Expanded underlying data pipeline to source data from new regions

Technologies: Ruby on Rails, PostgreSQL, Kubernetes, Docker, JIRA, Jenkins, Git

Project Manager — Tufts JumboCode (Central Massachusetts STEM Network)

August - December 2018

- Led a team of nine students in designing and developing a web application (React/Ruby on Rails) for a nonprofit focused on STEM education
- Directed task management, led design of internal data representation and architecture, mentored developers, maintained internal documentation

Technologies: Ruby on Rails, React, Heroku, Git, ZenHub (project management)

COMPUTER SCIENCE TEACHING EXPERIENCE

Teaching Fellow (previously TA) — Tufts Department of Computer Science

September 2017 - Present

- Lead, train, and mentor a team of 30+ teaching assistants and assist with course administration and managing staff
- Design new projects and lab assignments, and develop specifications and reference implementations
- Teach weekly lab sessions, hold office hours to strengthen students' problem-solving skills, and grade student work

Data Structures (TA S18, TF F19), Intro to CS (TA F17, TF F18), Distributed Systems (TA F19)

Summer Immersion Program Teaching Assistant — Girls Who Code

June - August 2017

- Taught 8-week introductory coding curriculum, covering the topics like web development, UX/UI, and cybersecurity
- Mentored a class of 20 high school students for college and career readiness

SKILLS

Programming Experience: C/C++, Objective-C, Ruby on Rails, Python, PostgreSQL, HTML/CSS/JavaScript

Technologies: Kubernetes, Git, Xcode, Valgrind, Linux/UNIX, Docker

PROJECTS

RPC: Python program that generates C++ stubs and proxies for remote procedure calls from a header file

File Copy: C++ program that copies files in packets across a network and recovers from dropped or reordered packets

Universal Machine: Emulator for a virtual machine written in C and optimized to be 10x faster using profiling tools

LEADERSHIP EXPERIENCE AND VOLUNTEER WORK

Tufts Computer Science Department Student Council Representative

Tufts FOCUS Orientation Support Staff

Peer Health Exchange Leadership Council and Educator