

Madeline Briere

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EDUCATION

DUKE UNIVERSITY

BSE IN ELECTRICAL & COMPUTER
ENGINEERING

BS IN COMPUTER SCIENCE

College of Engineering
Dean's List (All Semesters)
Expected May 2019 | Durham, NC
GPA: 4.0 / 4.0

OXFORD UNIVERSITY

SCIENCE, ETHICS & SOCIETY

SUMMER PROGRAM

July - August 2016 | Oxford, England
GPA: N/A

COURSEWORK

UNDERGRADUATE

Software Design & Implementation (TA)
Data Structures & Algorithms (TA)
Design & Analysis of Algorithms
Computer Architecture
Computer Security
Operating Systems
Intro to Signals & Systems
Electromagnetic Fields
Microelectronic Devices & Circuits
Fund. of Elec. and Comp. Engineering
Intro to Linguistics
Learning & Memory
Physiological Psychology

SKILLS

LANGUAGES

Proficient:

Java • C++/C • SQL • Matlab • Shell
Arduino • Assembly (MIPS) • \LaTeX

Familiar:

Python • CSS • JavaScript • XML
HTML

SOFTWARE/TOOLS

Amazon Web Services • Jenkins
Spring • Angular • AutoCAD • Git
PreForm • MakerBot • Maven

LINKS

Personal: madelinebriere.com
Github:// [madelinebriere](https://github.com/madelinebriere)
LinkedIn:// [madelinebriere](https://www.linkedin.com/in/madelinebriere)

EXPERIENCE

GOOGLE | SOFTWARE ENGINEERING INTERN

May 2018 - Aug 2018 | Mountain View, CA

- Recruited by the Travel User State team to redesign the current back-end representation of travel-related events (bookings, web searches, etc.)

ZUORA | SOFTWARE ENGINEERING INTERN

May 2017 - Aug 2017 | San Mateo, CA

- Developed automated unit tests (with Jenkins) for multiple REST APIs using logically identical queries written in Zuora Object Query Language (ZOQL) to confirm consistency for use in reporting and analytics
- Collaborated with Facebook software engineers to extend the open source distributed SQL query engine Presto in Zuora's analytics engine

DUKE COMPUTER SCIENCE DEPARTMENT | TEACHING ASSISTANT

Fall 2016 - Present | Duke University, NC

- Selected as one of the first female Teaching Assistants in Software Design & Implementation based on a demonstrated understanding of software design and a year of experience teaching Data Structures & Algorithms
- Mentoring ~5 students in biweekly code reviews to foster good coding habits

STARTUPS

FITCH & CO. | SOFTWARE ENGINEER

Spring 2018 - Present | Duke University, NC & MIT, MA

- Co-founding an automated trading startup alongside five engineers and two business consultants, seeking to develop a novel approach to trading using interchangeable algorithmic strategy
- Developing a robust API capable of handling trading requests sent via the strategy component of the system (award-winning design; see [here](#))

MARVIN AI SYSTEMS LLC | SIGNAL PROCESSING SPECIALIST

Spring 2017 - Present | Duke University, NC & MIT, MA

- Supporting a voice-based computing startup, a focused competitor to Amazon's Alexa with deep neural networks that seek to attain more accurate voice recognition for a smaller state-space of communications
- Formulating the system's novel software toolkit (documented [here](#))

AWARDS

2018	1/30	Duke University Faculty Scholars Nominee (see here)
2018	1 st /30	ECE Independent Study Poster Session (see here)
2017	1 st /50	Zuora Intern Career-Building Competition
2017	1 st /30	Zuora Q2 Hack-a-Thon (intern-only team)
2016	3 rd /10	Duke ECE Department Integrated Design Challenge

GROUPS

2017	VP	Tau Beta Pi: National Engineering Honor Society (see here)
2017	1/30	Duke Technology Scholar (see here)
2016	Exec.	Girls Engineering Change (promoting women in STEM; see here)
2015	1/50	Angier B. Duke Merit Scholar (full academic support; see here)