

Harrison Brown | [linkedin.com/in/hbrown512/](https://www.linkedin.com/in/hbrown512/)

EDUCATION

University of Cambridge | M.Phil. in Advanced Computer Science

October 2019 - July 2020 | Cambridge, United Kingdom | *Pass with Distinction*

Rice University | B.S. in Computer Science | School of Engineering

August 2015 - May 2019 | Houston, TX, USA | Honors: *cum laude* (GPA: 3.866/4.0)

WORK EXPERIENCE

Stripe | Software Engineer | Oct 2020 - Present | San Francisco, CA; Austin, TX

Microsoft | Software Engineer Intern | Jun 2019 - Aug 2019 | Redmond, WA

- Created a service to allow TCP traffic between sites on different VMs in Azure Premium App Service plans. [C#, C++]

Microsoft | Software Engineer Intern | May 2018 - Aug 2018 | Bellevue, WA

- Built a manager for a pool of pre-provisioned VMs to improve scaling times in Azure App Service Environments. [C#, SQL]

UnitedHealth Group | Software Development Intern | Jun 2017 - Aug 2017 | Boston, MA

- Built a chatbot that integrated with biometric sensors and a SQL database to gather information about patients. [Python]

TEACHING

My responsibilities as an undergraduate teaching assistant (TA) at Rice University consisted of assisting in weekly lab sessions, holding weekly office hours for students, and grading assignments. In 2018, I won the *Department of Computer Science Junior Merit Scholarship* for my teaching, research, and academic efforts.

TA for Statistical Machine Learning [Graduate Level] | Jan 2019 - May 2019 | Rice University

- Support vector machines, neural networks, hidden Markov models, and reinforcement learning. [Python]

TA for Fundamentals of Parallel Programming | Jan 2018 - May 2019, Jan 2019 - May 2019 | Rice University

- Abstract models of parallel systems, parallel algorithms, and common parallel programming patterns. [Java]

TA for Intro to Program Design | Aug 2017 - Dec 2017, Aug 2018 - Dec 2018 | Rice University

- Introductory functional programming, test-driven development, object-oriented design. [Java]

RESEARCH

Systems Research Group | Nov 2019 - Jul 2020 | University of Cambridge

- Supervised by Dr. Eiko Yoneki. Received a *Distinction* for my master's thesis, titled *Model-Based Reinforcement Learning for Computer Systems*.

BOLD (Big-data and Optical Lightpaths Driven) Lab | Jan 2017 - Aug 2017 | Rice University

- Supervised by Dr. Eugene Ng. Worked on proofs and extensions to the HyperOptics datacenter architecture.
- Received *Outstanding Undergraduate Researcher Award - Honorable Mention* from the Computing Research Association.

ACTIVITIES

Rice University NCAA Division I Men's Basketball | Jun 2015 - Jan 2017 | Rice University

- Competed as a small forward for a program that plays AP Top 25 teams. Year round practice and games. Spent two summers training with the team in Houston.
- Awarded the *Commissioner's Academic Medal* by Conference USA in 2016 and 2017.

Languages: Python, Java, C, C#, SQL

Other: I am an Eagle Scout (Troop 410, 2014)

Hobbies: Juggling (Clubs, Flaming Torches); Unicycling