KEVIN DACKOW

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EDUCATION

BROWN UNIVERSITY, Providence, RI – GPA: 3.85
Computer Science Sc.B. candidate. Expected graduation, May 2020.

AWARDS

HACK@BROWN FACEBOOK PRIZE *January 2018*

- Awarded the Facebook Prize at Hack@Brown for the team project that best "gives people the power to build community and/or bring the world closer together," for the web application Spectrum (see below).

COMPUTER SCIENCE EXPERIENCE

BROWN UNIVERSITY DEPARTMENT OF COMPUTER SCIENCE, Providence, RI
Head Teaching Assistant – Computer Networks *Fall 2019*

- Hold office hours to teach students computer networking concepts including: the OSI model, byte encoding, packet switching, inter- and intra-domain routing, security, congestion control, SDNs, and CDNs.
- Work with professor to set objectives for the course. Hire, manage, and lead the TA staff.

GOOGLE, INC., Sunnyvale, CA
Software Engineering Intern *June 2019 – August 2019*

- Developed and implemented a tool to increase granularity for the network model viewer. This improved visual analysis of the network topology and configuration.
- Designed, built, and deployed a supervised learning system for pattern discovery in network models.

BROWN UNIVERSITY SYSTEMS GROUP, Providence, RI
Undergraduate Research Assistant *June 2018 – January 2018*

- Worked with a research team developing long-lived, mostly idle network proxies to improve web performance by explicitly tackling the challenges created by device heterogeneity.
- Collected and analyzed comprehensive samples of web data to stratify a variety of user agent strings based on how websites respond by using Python, C++, and Selenium.

BROWN UNIVERSITY DEPARTMENT OF COMPUTER SCIENCE, Providence, RI
Teaching Assistant – Design and Implementation of Programming Languages *August 2018 – December 2018*

- Explained concepts and assisted students with topics including first-class functions, exceptions, continuations, type inference, type soundness, and garbage collection.
- Created, refined, and graded assignments with fellow TAs.

PROJECTS

TCP/IP *October 2018 – November 2018*

- Built TCP/IP on top of a simulated link layer in Golang.
- Implemented TCP Tahoe congestion control.

SPECTRUM *January 2018*

- Co-led a team to design and implement a live updating newsfeed that pulls articles from sites across the internet and displays them in a responsive user interface organized by political leaning.
- Developed the web application with a Python and MySQL backend.

MIRAI BOTNET SIMULATION *September 2017 – March 2018*

- Recreated the Mirai botnet using Raspberry Pis and implemented defenses to reroute attack traffic.

TECHNICAL SKILLS

Golang | C | Python | Java | Scala | OCaml | SQL | JavaScript | Angular | Bash | C++