#### **EDUCATION**

## **Boston University College of Engineering and College of Arts and Sciences**

Boston, MA

B.S. in Computer Engineering and B.A. in Pure and Applied Mathematics (dual degree program)

May 2021

Cumulative GPA: 3.92/4.00 (Dean's list, all semesters)

# **Boston University College of Engineering**

Boston, MA

Ph.D. in Computer Engineering

Expected May 2026

#### **RELEVANT EXPERIENCE**

Danfoss Power Solutions; Danfoss Innovation Accelerator, Data Science Intern, Cambridge, MA June - December 2021

Developed models for data-driven sales opportunity analytics including a binary classification model to predict
likelihood of closing a sale, a Cox PH model to estimate time-to-close, and a partial dependency plot-based feature
importance to recommend specific actions for sales managers

### IBM; TJ Watson Research Center, Research Intern, Yorktown Heights, NY

Summer 2020

- Collaborated with another intern to design a UI in JavaScript using libraries including D3, Vega, and VegaLite
- Conducted extensive literature survey and fault injection experiments on benchmark applications to gain familiarity with Kubernetes and fault diagnosis in distributed systems

Boston University; PEACLab, Undergraduate Researcher, Boston, MA

**Spring 2019 – Spring 2021** 

- Worked on Praxi, a tool designed to aid cloud administrators to monitor software present on their systems; Praxi employs a machine learning model to identify applications based on file system changes
- Converted research code to industry-ready modules, primarily coding in Python on Linux virtual machines (VMs)
- Designed hands-on cloud security software tutorial and extended Praxi's capabilities to version detection

#### **OTHER EXPERIENCE**

**Boston University Department of Electrical and Computer Engineering**, Boston MA

August 2019 - Present

Undergraduate Teaching Assistant for EC330 Applied Algorithms, EC414 Introduction to Machine Learning

# **PROJECTS**

- Spotimy website enabling users to filter their playlist according to audio features from the Spotify API
- ContextCheck website with BERT-based NLP algorithm fine-tuned to detect bias in news articles
- Modulo Intelligent and Modular Inventory System [personal project] that updates content in real-time online at low cost; uses embedded electronics, is easily upgradeable, and can automatically order supplies when low

# **LEADERSHIP, HONORS & AWARDS**

Vice President, Tau Beta Pi Engineering Honor Society, Eta Chapter

Music Director, Chordially Yours – A Cappella group at Boston University

BU Claire Boothe Luce Fellowship; Michael F. Ruane Award for Excellence in Senior Capstone Design; Senior Design Project Excellence Award; Undergraduate Research Opportunity Program Award; Honorable Mention: Computing Research Association's Outstanding Undergraduate Researcher Award; Best in Class for Sophomores in BU's Imagineering Competition; BU Richard D. Cohen Scholarship; BU's Lutchen Engineering Summer Fellowship.

# **SKILLS**

Computer: C, C++, Java, JavaScript, ReactJS, D3, Vega, Python, R, ROS, GitHub, MATLAB, Linux, RISC-V, Verilog

# **PUBLICATIONS AND TALKS**

- Sadie L. Allen, Mert Toslali, Srinivasan Parthasarathy, Fabio Oliveira, Ayse K. Coskun. Tritium: A Cross-layer Analytics System for Enhancing Microservice Rollouts in the Cloud.
- Anthony Byrne, Sadie L. Allen, Shripad Nadgowda, and Ayse K.Coskun. 2019. Demo Abstract: Praxi: Cloud Software
  Discovery That Learns from Practice. Middleware '19: International Middleware Conference, December 8–13, 2019,
  Davis, CA, USA. ACM, New York, NY, USA, 2 pages.
- Anthony Byrne, Sadie L. Allen, Shripad Nadgowda, and Ayse K.Coskun. 2019. Tutorial: Praxi: Cloud Software
  Discovery That Learns from Practice. In *International Conference on Cloud Engineering*, June 24-27, 2019, Prague,
  Czech Republic.
- Keller et. al. "Genetic Drivers of Pancreatic Islet Function, Genetics, September 2018.

#### **INTERESTS**

Running, ice skating, hiking, singing, music production, board games, Latin