AILITA EDDY

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EDUCATION

Brown University | GPA: 4.00 | Providence, RI
- B.A. Computer Science Candidate
- Engaged Scholars Program for Community Engagement
- Expected Graduation: May 2021

Relevant Coursework
- Software Engineering; Computer Systems; Data Science; Functional Programming, Algorithms, and Data Structures; Object-Oriented and Imperative Programming; Discrete Structures and Probability; Linear Algebra; Statistical Inference; Statistical Methods

Projects
- Linux Shell – limited version; capable of running, stopping, and resuming foreground and background processes simultaneously, handling signals, executing built-in commands, and redirecting input and output. Programmed in C.
- Web Browser & Server – created text-based and GUI-based web browsers, and a server with webpages. Programmed in Scala, HTML, and JavaFX.

RESEARCH & PROJECT DESIGN EXPERIENCE

Product Development Intern, SIA Vigobot and Stradiņš University Hospital | *Zariņš-Knight Travelling Fellowship*
June – August 2019 | Riga, Latvia
- Independently designed rhythmic auditory stimulation (RAS) project to improve Vigobot digital therapeutics application for stroke rehabilitation
- Developed protocol for incorporating RAS into physical therapy regimen offered by Vigobot application
- Researched and advised founder of Vigobot on serverless computing platforms and architectures

Independent Study in Computer Science, Rhode Island Hospital & Brown University
January 2019 - May 2019 | Providence, RI, USA
- Studied digital image processing under Dr. Reshma Munbodh to analyze the accuracy of the FMRIB Software Library (FSL) segmentation algorithm in detecting brain lesions in 15 multiple sclerosis patient MRIs
- Learned and implemented statistical techniques for digital image processing in MATLAB to compare manual and algorithmic segmentations of brain lesions

Undergraduate Research Intern, Auditory Neuroscience Laboratory | *Northwestern University*
June – August 2018 | Evanston, IL, USA
- Collected over 30 participants' neural data using scalp electrodes to investigate the effect of concussions on speech sound processing
- Analyzed and organized neural data of sound processing with SPSS, MATLAB, and Microsoft Excel

SKILLS
- C | Java | Scala | x86 Architecture | OCaml | Eclipse | GDB | SPSS
- English – Native | Latvian – Native | French – Conversational

CAMPUS & COMMUNITY ENGAGEMENT

Teaching Assistant, Introduction to Data Structures & Algorithms | January 2020 – present
- Hold office hours (4 hrs./week) to provide conceptual, code debugging, and project implementation help for a class of 200 students
- Work with Professor Kathi Fisler and Head TAs to redesign course projects and grade homework problems covering data structures and object-oriented programming

Computer Science Department Representative, Engaged Scholars Program | September 2019 – present
- Work with faculty to develop curriculum of the Computer Science Engaged Scholars Program (ESP)
- Organize events to build community within Computer Science ESP and inform prospective students

Undergraduate Mentor, Women in Computer Science | September 2019 – present
- Advise first- and second-year women in computer science on navigating the department, courses, finding research and internship opportunities, and similar topics

Social Coordinator, Brown University Environmental Program House | September 2018 – present
- Organize social activities to foster inclusive house community and advance our sustainable living goals