

# HEEBA KARIAPPER

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## EDUCATION

**UNIVERSITY AT BUFFALO** | BUFFALO, NY  
BA COMPUTER SCIENCE + DATA-INTENSIVE COMPUTING CERTIFICATE W/ MINOR IN ENGLISH

Dean's List  
University Honors Scholar  
**WORK EXPERIENCE**

**LINKEDIN** | INTELLIGENT AUTOMATION INTERN, Center of Excellence in Finance MAY 2018 – AUG 2018 | SUNNYVALE, CA  
*Tools/Tech: AutomationAnywhere, Robotic Process Automation (RPA), Microsoft Azure, LUIS (Language Understanding Intelligent Service), VBA*

- Researched and built a chatbot proof-of-concept and presented findings in a company tech talk
- Designed, developed, and deployed an RPA bot to streamline a manual, data-intensive accounting process (savings of three weeks/year)

**GOOGLE** | ENGINEERING PRACTICUM INTERN, JavaScript Compiler MAY 2017 – AUG 2017 | SUNNYVALE, CA  
*Tools/Tech: Java, JavaScript (ES5, ES6), Google Closure Compiler (JSCompiler)*

- Worked on the Closure Compiler team (JavaScript compiler) to add native ES6 module support to the compiler
- Fixed long-standing bugs in compiler

**THE MARIANNE MOORE DIGITAL ARCHIVE** | PROJECT ASSISTANT MARCH 2016 – MAY 2017 | BUFFALO, NY  
*Tools/Tech: Python, JavaScript/JSON, HTML/XML*

- Collaborated with the English and Computer Science departments to build and maintain a digital archive of modernist poet Marianne Moore for digital scholarship and research

**ACV AUCTIONS** | SOFTWARE QA ENGINEERING INTERN NOV 2016 – APR 2017 | BUFFALO, NY  
*Tools/Tech: Ruby, RSpec testing framework; Capybara, Appium, Selenium (testing + automation), Travis CI*

- Worked with the QA Engineering team to develop and apply testing processes for ACV Auctions product (web, Android, iOS apps)
- Designed, developed, and executed automation scripts

**UB NANOSATELLITE LAB** | FRONT-END DEVELOPER, Mission Control Software FEB 2016 – FEB 2017 | BUFFALO, NY  
*Tools/Tech: server – MongoDB, Python; client – JavaScript, HTML/CSS, Bootstrap framework, Python template engines (Jinja, Django)*

- Developed and maintained the user-friendly mission control site to be used to communicate with three nanosatellites (GLADOS, SORA, and LinkSat) and allowed users to access satellite data

## PROJECTS / RESEARCH

**SPEAK (University Petition Web Application)** AUG 2017 – DEC 2017 | BUFFALO, NY  
*Tools/Tech: backend – Node.js, Express.js, MySQL; frontend – React, React-Bootstrap; npm, Auth0, Google Cloud Platform (deployment)*

- Created a web application as part of a group of 4 to implement an online petition portal, where users can create, sign, and share petitions

**MOORE ARCHIVE INTERDISCIPLINARY RESEARCH PROJECT** AUG 2016 – MAY 2017 | BUFFALO, NY  
*Tools/Tech: Python, Algorithmia API, Google Ngram Viewer*

- Analyzed Marianne Moore's poem "The Buffalo", applying both digital tools and computing as well as literary criticism to research
- Explored fields and tools related to natural language processing (NLP), digital media, and data parsing
- Presented poster *Hierarchy in Marianne Moore's "The Buffalo": A Literary & Digital Analysis*

**INDEPENDENT STUDY: INTERNET-CLASS.ORG (CS Education)** JAN 2017 – MAY 2017 | BUFFALO, NY

- Analyzed Fall 2016 semester of CSE199 using course evaluation data and TA experience, presented poster with findings

## TEACHING EXPERIENCE

**CSE 442: SOFTWARE ENGINEERING** | TEACHING ASSISTANT AUG 2018 – PRESENT | BUFFALO, NY

- Supervised software engineering teams in project manager role
- Provided feedback and advice in weekly team meetings

**CSE 306: SOFTWARE QUALITY IN PRACTICE (C, Java)** | TEACHING ASSISTANT DEC 2017 – PRESENT | BUFFALO, NY

- Covered tools and techniques for identifying and locating various types of quality defects in code (e.g. bugs related to memory, performance, and/or dependencies)
- Introduced students to C testing and debugging tools (e.g. CUnit, GDB, Gcov, Valgrind)

**CSE 115 / 116: INTRO TO CS I / II (Java)** | TEACHING ASSISTANT DEC 2016 – PRESENT | BUFFALO, NY

- Led recitations and oversee students in large-scale, semester-long software group project

**CSE 199: HOW THE INTERNET WORKS** | CO-HEAD TEACHING ASSISTANT AUG 2016 – DEC 2017 | BUFFALO, NY

- Planned activities to teach Internet concepts like networking and cyber security in an accessible way

## VOLUNTEER / LEADERSHIP EXPERIENCE

**SCIENTISTA EXECUTIVE BOARD** | PUBLICITY CHAIR DEC 2017 – PRESENT | BUFFALO, NY

- Managed relationships with professors and other student organizations on campus
- Promoted the growth of women in STEM fields, particularly computer science

**CSE DEPARTMENT STUDENT ADVISORY BOARD** JAN 2016 – PRESENT | BUFFALO, NY

- Debated changes and introduced ideas to improve the department and curriculum, attract more students to the program

**UB HACKING** | CO-PUBLICITY LEAD MAY 2017 – PRESENT | BUFFALO, NY

- Organized publicity efforts for the University at Buffalo's student-run hackathon, UB Hacking

**COLLEGE OF ARTS & SCIENCES (CAS) AMBASSADOR** | ENGLISH DEPT. REP. MAY 2017 – MAY 2018 | BUFFALO, NY

- Represented the English Department and the College of Arts & Sciences at University at Buffalo events

**EMERGE (Interdisciplinary STEM Publication)** | ARTISTIC DIRECTOR FEB 2016 – JUN 2017 | BUFFALO, NY

- Launched University at Buffalo's first STEM publication, bridging the humanities with technical fields for interdisciplinary collaboration
- Managed layout, photographers, artists; designed cover, and provided original artwork to create an original, professional publication

## HONORS / AWARDS

PIAZZA WINTER TECH TOUR PARTICIPANT | 2018  
GINA BRONKIE HAMMOND CS SCHOLARSHIP | 2018  
COLLABORATIVE RESEARCH EXPERIENCE FOR UNDERGRADUATES (CREU) | 2017-18  
CURCA UNDERGRADUATE RESEARCH AWARD | 2017

HSBC SCHOLARS AWARD | 2017  
MAX KAY AND NAIDA IRIZARRY SHAW CS SCHOLARSHIP | 2016  
CSEA FRESHMAN SCHOLARSHIP | 2015  
UNIVERSITY AT BUFFALO PROVOST SCHOLARSHIP | 2015  
ROCHESTER INSTITUTE OF TECHNOLOGY COMPUTING MEDAL | 2014