# CHRISTINE MATHEWS

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## EDUCATION

### RUTGERS UNIVERSITY

B.S. in Electrical & Computer Engineering
B.A. in Computer Science
Engineering Honors Academy
Expected: May 2022 | N Brunswick, NJ
Cum. GPA: 3.883/4.0

### MIDDLESEX ACADEMY

Electrical & Computer Engineering
GPA: 3.9/4.0

## SKILLS

### LANGUAGES

Java • Python • C++ • Matlab
HTML • CSS • JavaScript • C
PostgreSQL • Assembly • JSON

### FRAMEWORKS

Flask • Bootstrap • Django

### TECHNOLOGIES

Git • Linux • Arduino • Raspberry Pi

## COURSEWORK

### UNDERGRADUATE

Linear Algebra
Data Structures
Computer Architecture
Systems Programming
Design & Anal. of Comp. Algorithms
web Programming w/ Python and JS*
Intro to AI with Python*
Discrete Mathematics
Probability & Random Processes
Principles of Electrical Engg. I & II
Digital Logic Devices
Linear Systems & Signals
Electronic Devices
*Harvard CS50 course

## LINKS

Website:// christinem61.github.io
LinkedIn:// christinem61
Github:// christinem61

## EXPERIENCE

**UBER** | Incoming Software Engineer Intern
May 2021 - August 2021 | San Francisco, CA

**VIZLAB** | Undergraduate Research Assistant
January 2021 - Present | Rutgers University

- 3D visualization and feature tracking/extraction to characterize mesoscale ocean eddies using JavaScript API: WebGL

**MY PEAK SCORE** | SAT Tutor
January 2020 - Present | NJ

- Conducting personalized one-on-one sessions for the SAT Reasoning Test resulting in significant score increases, strong study behaviors and increased tutee engagement

**WINLAB** | Research Intern
May 2019 - August 2019 | Rutgers University

- Developed an activity recognition system using Texas Instruments' mmWave radar (operated in Matlab)
- Implemented machine learning algorithm to detect activities/gestures using Python (Keras, Scikit-learn, and NumPy)

## PROJECTS

### WHERE'S THE FILE?

- Designed server-client version control system in C and utilized sockets, file I/O and multithreading to execute common commands (checkout, push, commit, rollback, etc.)

### SPOTIFY AUTOMATION

- Developed a script in Python that retrieves liked videos from YouTube and generates a Spotify playlist of those liked songs
- Implemented Spotify API and YouTube Data v3 API

### FLACK

- Coded an online real-time messaging service similar to Slack where users can sign in, create their own channels/chatrooms, join existing channels, and private message users
- Developed using websockets in Python (Socket.IO), JavaScript and HTML5/CSS3

### INFIX EXPRESSION EVALUATOR

- Calculator that solves complex infix expressions including variables in Java
- Used recursion, stacks and other data structures to determine and print answers

## EXTRACURRICULARS

**AT&T** | Summer Learning Academy Externship

- Refined technical skills and business acumen in areas of project management, leadership, machine learning & AI
- Expanded professional development skills such as personal branding, time management, and networking

**JPMORGAN CHASE & CO** | SWE Virtual Experience

- Participated in open access virtual program & became familiar with JPMC frameworks