

# CHRISTINE MATHEWS

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## EDUCATION

### RUTGERS UNIVERSITY

B.S. in Electrical & Computer Engineering

B.S. in Computer Science

Engineering Honors Academy

Expected: May 2022 | N Brunswick, NJ

Cum. GPA: 3.853/4.0

### 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

Web Programming w/ Python and JS\*

Intro to AI with Python\*

Discrete Mathematics

Probability & Random Processes

Programming Methodology I

Principles of Elec. Engineering I & II

Digital Logic Design

\*Harvard CS50 course

## EXPERIENCE

### MY PEAK SCORE | SAT Tutor

JANUARY 2020 - PRESENT

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

### WINLAB | Project Intern

MAY 2019 - AUG 2019

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