# Derek Roberts

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## Education

**BOSTON UNIVERSITY**
BA in Computer Science
📅 May 2024      📍 Boston, MA
- 3.6 GPA
- Dean's List x4

**CHATHAM HIGH SCHOOL**
Diploma
📅 June 2020    📍 Chatham, NY
- Distinguished with High Honors & Honors in Science
- National Honor Society

## Links
🔗 GitHub  **robertsderek**
in Linkedin  **Derek Roberts**

## Coursework
**UNDERGRADUATE**
- Combinatoric Structures
- Data Structures & Object-Oriented Programming
- Computer Systems
- Intro to Algorithms
- Probability in Computing
- Software Engineering
- Intro to Databases

## Skills
**FRONT-END**
HTML5 • CSS • Javascript • ReactJS

**BACK-END**
Python • C • Java • OCaml • SQL

**MISCELLANEOUS**
VSCode • Spyder • CLion • Microsoft Office • LaTeX • Git

## Portfolio
My Portfolio Website
robertsderek.github.io/resume

## Professional Experience

### LANDSCAPER
Old Chatham Caretaking, Inc
📅 Summer 2022                      📍 Old Chatham, NY
- Performed upkeep of existing landscaping by mowing, trimming, weeding, and gardening. Completed all jobs within allotted times.

### CUSTOMER SERVICE REPRESENTATIVE
Backwater Bar & Grill
📅 Summer 2018 – Summer 2020        📍 Canaan, NY
- Utilized interpersonal skills to maximize the experience of customers.

## Projects

**PhotoSharing Web Application**
- Developed a fully functional photo-sharing web application using Python, Flask, and SQL in an Intro to Databases class project.
- Enabled users to create accounts, post photos, add tags, captions, albums, and friends, and interact with other users by liking and commenting on photos. Created algorithms for finding friends and photos based on user activity, and displayed top users and hashtags of the day.

**Google Places Event Planner**
- Developed a web application in ReactJS using Google Maps, Google Places, and weather APIs, following an agile development process with a development team using git.
- Implemented the Google Places and Maps functionality, enabling users to find nearby activities based on their current location and display them on a map.
- Designed the application to allow users to add selected activities to their calendar with one click, improving the user experience and making event planning more convenient.

**OCaml Language Interpreter**
- Developed a full interpreter in OCaml for a custom language, implementing parsers, stack management, and function handling.
- Designed and implemented character validation, parsing rules, and other language features to ensure correct interpretation of code.

## Clubs & Competitions

**Upsilon Pi Epsilon**
📅 Sep 2022 – Present               📍 Boston, MA
- Member of the Boston University chapter of Upsilon Pi Epsilon. UPE is the international honor society for the computing and information disciplines.

**HackHarvard 2022**
📅 Oct 2022                         📍 Cambridge, MA
- I worked on a solo project at this hackathon. I primarily used Python, pygames, and GitHub to create an AI Connect Four game. In addition to being able to play with a friend, there was an AI with 3 difficulty settings.

**BostonHacks 2021**
📅 Nov 2021                         📍 Boston, MA
- This was my first Hackathon experience. Together my two teammates and I produced an advanced reminder and list website. I worked in python to create speech-to-text functions within the website.