

# Rohit Bhatta

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## EDUCATION

### UNIVERSITY OF TEXAS AT AUSTIN | BS IN COMPUTER SCIENCE

College of Natural Sciences | Expected May 2019 | Austin, TX

Turing Scholars Honors Program • GPA: 3.6 / 4.0

#### Relevant Coursework:

Data Structures Honors

Discrete Mathematics Honors

Computer Architecture Honors

Operating Systems Honors

Algorithms & Complexity Honors

Machine Learning/Vision Honors

Competitive Programming

Linear Algebra

Artificial Intelligence Honors

Software Engineering

Probability & Statistics

Number Theory

## EXPERIENCE

### ZILLOW | SOFTWARE DEVELOPMENT ENGINEER INTERN

May 2017 – August 2017 | Seattle, WA

- Agent Platform Team

## PROJECTS

### WEBCRAWLER | JAVA

- Developed a highly efficient search engine in Java that crawls the Web
- Supports various types of queries: single word, AND, OR, negative, phrase, implicit AND
- Composed of a recursively managed Query Parser for quick lookup time

### FACE DETECTOR | MATLAB

- Implemented a Dalal and Triggs multi-scale sliding window detector to recognize human faces
- Trained a linear classifier and added hard negative mining to improve accuracy
- Achieved an average precision of 93%

### FUN FEATURES | C, ASSEMBLY

- Added features for a basic language called FUN that supports expressions, statements, and variables
- Implemented a linkage convention to support functions and variable scopes as well as convert FUN to Assembly
- Executed a parsing technique that allows one to define and implement classes as well as instances of that class

### TEARS OS | C, C++

- Assembled a rudimentary, but fully functional operating system as part of a team
- Consisted of a heap, threads, processes, virtual memory, and a file system in both kernel and user mode
- Added a Copy-On-Write feature to optimize the management of virtual memory

## SKILLS

### PROGRAMMING

Proficient:

Java • Python • Matlab

Familiar:

C • C++ • Assembly • PHP • Javascript

•SQL •Android • Git •  $\text{\LaTeX}$

## ACTIVITIES

### CLUBS

Turing Scholars Student Association, Mobile App Development, Chess Club, Intramural Soccer, Table Tennis Club

### HOBBIES

Programming, Soccer, Chess, Tennis, Table Tennis, FIFA, Badminton