# Ankit Patel

## 1B Software Engineer

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## Summary of Skills

**Languages:** C++ // C# // C // Java // HTML // CSS // JavaScript
**Technologies:** Node.js // ReactJS // Socket.io // Express.js // MATLAB // LaTeX
**Tools:** Git // Unix // Bash // Vim

## Projects and Experience

### Archimedes | C# , JavaScript, Unity, Arduino
Nov. 2017
github.com/EulerLoop/Archimedes
- 2D Puzzle Platformer Game with 10 levels created in **Unity**
- Implemented traditional platformer mechanics and puzzle mechanics using **C#** and **JavaScript**
- Created a joystick controller, that used **Arduino** to convey inputs from the controller to a computer

### Online Portfolio | *ReactJS, GatsbyJS, Javascript, HTML5, CSS3*
Dec. 2017
github.com/EulerLoop/EulerLoop.github.io, **live-build:** ankitmpatel.me
- Created using **ReactJS** to act as a personal website and portfolio of projects
- Utilized **GatsbyJS** as a static website generator to allow for reduced loading times
- Constructed modern user-interface using **CSS** to allow for engaging interface

### Chatfinity | *Node.js, Socket.io, JavaScript, HTML5, CSS3*
Jan. 2018
github.com/EulerLoop/Chatfinity, **live-build:** Chatfinity.herokuapp.com
- Online anonymous chat web application created using **Node.js, HTML, and CSS**
- Real-time chat implemented by using **Socket.io** to pass data between connected users

### Escape the Mines | *Java*
July 2017
github.com/EulerLoop/Escape-the-Mines
- Math Memory Minesweeper-like game that differs from Minesweeper by using a **recursive algorithm** to generate mines in absolute random as opposed to preset biases
- Implemented UI System and Board using **Java Swing**

### Password Strength Determiner | *Java*
May 2017
github.com/EulerLoop/Password-Strength-Determiner
- Program outputs scores to inputted passwords by implementing the **diceware passphrase algorithm**, which considers, spatial order, repetition, sequences, and dates
- Utilized a **Python Scraper** and **BeautifulSoup** to **scrape data** from a website on common pass-

## Employment

### Quiznos Sub | *Cashier, Fulltime*
*March 2015—Sept. 2016*
- Efficiently **communicated** with customers in a **fast-paced** environment
- Decreased the amount of people required to work lunch hours by **20%** by taking orders **productively**

## Awards

- **Highest mark** in Grade 12 Mathematics Course across 300 students — 2017
- Placed in the **top 20%** of contestants of the Euclid Mathematics Contest — 2017
- Was awarded the **Charles Fogarty award**, for being both proficient and passionate about computer science and mathematics — 2016

## Education

### University of Waterloo
*2017-2022*
- Candidate for Bachelor of Software Engineering (BSE)
- Awarded the President's Scholarship of Distinction for an entrance average of greater than 95%