

# Zeke Baker

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## Background

### **Dartmouth College**

-Sep '16 – Jun '20

-Hanover, NH

-Bachelor of Arts

-Major in Comp. Sci. & Engineering

-GPA: 3.87/4.0

-Magna Cum Laude

-Phi Beta Kappa

### **Relevant Coursework**

-AR & VR Development

-Object-Oriented Programming

-Software Design & Implementation

-Algorithms

-Artificial Intelligence

-Android Programming

-Discrete Math in Comp. Sci.

-Computer Architecture

-Microprocessors in Applied Systems

-Digital Electronics

### **Languages**

-C++

-C

-C#

-Java

-Python

-Markdown

-XML

-HTML

-Spanish (fluent)

### **Tools**

-Unity

-Unreal

-Android Studio

-Bash

-MATLAB

## Work Experience

### **Digital Applied Learning and Innovation Lab**

-Software Developer, Jan '18 – Feb '19

-Worked on software projects (websites, apps, games)

contracted by entrepreneurs. Projects were team-led and

followed a week-long sprint system to reach an MVP in

10 weeks.

## Project Experience

### **Operation Cooperative, Jun '20**

-With a team, developed a [spy-themed 2-player VR & mobile game](#).

Work focused on gameplay design and a 3D maze minigame.

Made in Unity for the Oculus Quest and Android.

### **VR Chess, Nov '19**

-With a team, developed a [VR chess game](#) with basic AI and

multiplayer capabilities. Made in Unity for the Oculus Quest.

### **Octopus Experiments, Aug '18**

-Application that animates a crab depending on varied user

input for research on octopuses' psychology. Self-taught basic

Unity to improve scale and quality of pre-existing application.

### **Rubik's Solver, Aug '17**

-An Android app that generates list of moves to solve a Rubik's cube

of any order from 2x2x2 to 20x20x20 based on user-entered 2D

net. Used JXL Library to save and load solutions using .xls files.

## Honors and Achievements

### **7 Citations of Academic Excellence, incl. citations for the courses:**

-Senior Design & Implementation Project

-Computer Architecture

-AR & VR Development

-Software Design & Implementation

### **Robert J. Weber Fund Hispanic Novel Prize recipient, Jun '20**

### **Christina Porter Award for Achievement in Vocal Music recipient, Jun '20**

## Fun Facts

-Is an unabashed gamer, with *Minecraft*, *Red Dead Redemption 2*, *Halo: Reach*, and *Call of Duty: Black Ops II* as a few favorites.

-Studied abroad in South America for 5 months collectively junior year of college.

-Loves to sing—contemporary, classical, show tunes—and was music director of his college a cappella group.

-Is a huge fan of twisty puzzles (the family of puzzles to which the Rubik's Cube belongs).