

# JOSH HUMPHERYS

Greater San Diego Area  
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**Software engineer pursuing a full-time development position at a fast-paced company**

## SKILLS & TECHNOLOGIES

C# | .NET | ASP.NET | JavaScript | TypeScript | HTML | CSS | React | Angular | Redux | Node.js  
npm | Autofac | AutoFixture | NUnit | MSTest | xUnit | Moq | JustMock | Java | Git | GitHub

## EDUCATION

### **M.S. Computer Science**

Georgia Institute of Technology; Atlanta, GA (online); August 2018 – December 2021 (expected)

- Specialization in Machine Learning
- GPA: 4.00/4.00

### **B.A. Computer Science and Mathematics**

Covenant College; Lookout Mountain, GA; August 2015 – May 2018

- Concentrations in cybersecurity and software engineering
- GPA: 3.95/4.00

## PROFESSIONAL EXPERIENCE

### **Software Engineer**

Illumina; San Diego, CA; May 2018 – Present

- Leading the “Motion Subsystem” as a subject matter expert and tech lead for motor control
- Developing software for several projects and creating an architecture to share code between them
- Writing C# for a .NET Core and ASP.NET back-end and TypeScript for an Angular front-end

### **Software Engineering Intern**

Illumina; San Diego, CA; May 2017 – August 2017

- Contributed to iSeq 100, creating various applications for both end-users and manufacturers
- Wrote re-usable, cross-instrument libraries and front-end C# applications using WPF and UWP

### **Full-Stack Web Development Intern**

Paragon Component Systems; Chattanooga, TN; June 2016 – August 2016

- Developed in-browser engineering software using React and Redux
- Added routes to the server and updated the database schema using C# and Entity Framework
- Contributed significantly to a team of only 6-8 developers

### **Android Development Volunteer**

LightSys Technology Services; Colorado Springs, CO; March 2016

- Implemented an Android app to accompany LightSys’ CRM software

### **Software Development Volunteer**

Invasion Laser Tag; San Marcos, CA; July 2015

- Built a Java app to generate “Happy Birthday” firework animations, with custom names and colors

## GRADUATE COURSEWORK

Computer Vision | Computational Photography | Database Systems | Software Arch. & Design  
High Performance Computer Arch. | Advanced Operating Systems | Bayesian Statistics

## PERSONAL PROJECTS

Color Timer; January 2018 – February 2018; ([colortimer.us](https://colortimer.us), source on GitHub)

- Developed a browser-based timer for speedcubers to record solve times and perform analysis

AutomaDraw; July 2017 – December 2017; ([automadraw.com](https://automadraw.com), source on GitHub)

- Programmed a web app to create and analyze various automata and formal grammars

Penguin Game; January 2016 – March 2016 ([joshhumpherys.github.io/PenguinGame](https://joshhumpherys.github.io/PenguinGame), source on GitHub)

- Designed and wrote a 2D platformer from scratch using JavaScript to ask a girl to a school dance