

# Tim Kutcher

A full-stack software engineer specializing in web-development. Interests include Process Automation, Developer Tools, Compilers & Languages, Human Computer Interaction & UX Design.

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## EXPERIENCE

**FULL STACK SOFTWARE ENGINEER** DICORP, Inc. *Forest Hill, MD*  
SEPTEMBER 2019 - PRESENT

Engineer at DICORP, Inc., focused on enhancing DICORP’s core technology of a low-code platform to rapidly develop applications suited for data collection, submission, and reporting. Helped introduce an agile-development process, centralizing issue management in GitLab in 2019. In February 2020, developed a utility to unit test XSLT programs using Python and XSLT. Developed the source code for dicorp.com and zpdsolutions.com in the Summer of 2020. Supporting various initiatives for core technology enhancements, particularly in specifying business logic and advanced rules.

**SOFTWARE INTERN** Booz Allen Hamilton *Annapolis Junction, MD*  
SUMMER 2018

Interned as part of the Booz Allen Hamilton Summer Games program, a program where small teams lead by a mentor develop a creative solution to some problem. Project was developing an application for Android devices in Java to address the issue of communication and emergency alerts without internet or cellular service. The application implements a gossip protocol with connections made via Bluetooth and Wi-Fi Direct to work independent from the internet. End of the summer presentation placed 2nd out of the 19 intern groups.

**TEACHING ASSISTANT** Johns Hopkins Computer Science Dept. *Baltimore, MD*  
2017-2019

Served as a Course Assistant for Intermediate Programming in C/C++ (Summer 2017), Automata & Computation Theory (Spring 2017), and Data Structures (Fall 2017, Spring 2018). Head Teaching Assistant for Data Structures (Fall 2018 - Spring 2019). Developed a Java library “JGrade” to handle automatically grading student submissions to assist managing the course in December of 2018.

## ADDITIONAL

### JOHNS HOPKINS VARSITY BASEBALL

AUGUST 2015 - MAY 2019

Outfielder for the Johns Hopkins University varsity baseball team. Selected to First Team Academic All-District in 2018. Named captain in 2019 season where the team finished third in the country at the Division III College World Series. In 2019 received the Robert H. Scott Award for excellence in athletics, scholarship, and extracurricular participation, awarded to one male graduating senior each year.

### JOHN CARROLL SPORTS ANALYTICS CLUB MODERATOR

AUGUST 2020 - PRESENT

Creator and moderator of a sports analytics club at The John Carroll School high school in Bel Air, MD, introducing python programming to high school students in the context of sports analytics.

## EDUCATION

*Johns Hopkins University*  
B.S. Computer Science, 2019

## SKILLS & ABILITIES

### *Programming*

*Experienced*

Python, TypeScript/JavaScript, Java, XSLT, Bash Scripting, HTML/CSS, Postgres/SQL

*Familiar*

C, C#, LISP, OCaml, ARM Assembly

### *Tools & Frameworks*

*Experienced*

Flask, Angular2+, Docker, Git, CI/CD, Web Development, Agile Development, Adobe XD, QuickBase

*Familiar*

Azure, AWS, MongoDB, Mobile Development

### *Foreign Language*

Conversational Spanish