



Justin Ziegelmüller

CS/CE Student, Community Activist, Designer, Web Developer, Econ Nerd, and Roller Coaster Enthusiast.

Education

Northside College Preparatory High School
Graduating June 2018

Washington University in St. Louis
Class of 2022, Undeclared

Coursework

Notable	Favorites
AP Computer Science	AP CS
H CS1: Java	Art 1
H CS2: Digital Systems	AP Microeconomics
H Database Systems	AP Government & Ptx
Math through AP Calc	AP Physics C

Skills

Programming Languages

Java, Python, Processing, HTML/CSS (and various abstractions), Javascript, SQL, MongoDB, GraphQL, Ruby

JavaScript/Web Libraries & Implementations

React, Node, GraphQL, Express, D3.js, Plot.ly, Jekyll, Github Pages

Technologies

PC Hardware, Windows systems, Git, OracleSQL, Raspberry Pi, Arduino, 3D-Printing, CNC Milling, CMS & SEO, CAD

Design & Graphics Software

Adobe CC Suite, Affinity Designer, Autodesk Inventor, Autodesk Fusion 360, OsciMusic, Simplify3D

Projects

Current works-in-progress include a large dot-matrix display from a discarded McDonalds sign, a second version of the NCP Debate Database powered by React, a Raspberry Pi timelapse camera, several websites, and many, many more.

Last Updated: May 2018

Activities & Work

NCP Debate Team - Varsity Debater

2014 - Present

Participated on policy debate teams for six years. Won multiple team and individual awards, taught novice debaters, and volunteered at middle school tournaments. Developed a proprietary online service for argument tracking.

NCP Student Council

2015 - Present

Served two years as Marketing Director (a nominated position) before being elected as Public Relations Director for senior year. Managed Student Council's marketing, design, website, and publicity efforts. Led Clean Spaces Campaign, a Student Council sponsored initiative to reduce litter at NCP.

Illinois High School Democrats

Spring 2016 - Present

Established an IHSD chapter at NCP, served as the Vice Chair and Chairperson, and the State Communications Chair. Learned about political activism and youth organizing.

Vote16 Illinois

Winter 2016 - Present

Co-founded and expanded a youth-led movement to lower the voting age in municipal elections to 16. Currently serve as the Digital Outreach Chair, managing cyber relations and online marketing to local and state politicians.

NCP Code Club/ChiCode

Winter 2016 - Present

Co-organized city-wide ChiCode initiative that brings extracurricular coding to schools across the city through "makeathons" and other events. Taught lessons for NCP Code Club, Northside's chapter of ChiCode.

NCP Makerspace

Spring 2017 - Present

Opened Northside's makerspace to the broader student body, bringing the power of manufacturing technology to the curriculum and community. Assisted in purchasing decisions, organized the physical space and worked with school administration to establish the space.

Boy Scouts of America - Eagle Scout

2011 - Present

Participated in Troop 865 for six years, learning about leadership, community and preparedness. Achieved Eagle rank December 6th, 2017.

Environmental Protection Agency GLNPO Division

Summer 2017

Performed multiple IT service functions and supported data gathering efforts as a Technical Operations and Regulatory Intern (paid). Co-authored a research article about fish contamination.

Interests



Machining Music Electronics Skiing Sailing Photography Politics/Activism Cycling 3D Printing