

Ryan Westfall

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Education

University of Oklahoma

B.S. WITH HONORS IN COMPUTER SCIENCE, MINOR IN MATHEMATICS

- GPA: 3.83
- Coursework: Data Structures, Principle of Programming Languages, Theory of Computation, Operating Systems, Computer Organization, Applied Statistics, Linear Algebra, Discrete Mathematics

Norman, OK

August 2018 - May 2022

University of Oxford

HONORS AT OXFORD STUDY ABROAD PROGRAM

Oxford, United Kingdom

June 2019 - July 2019

Claremore High School

HIGH SCHOOL DIPLOMA

- GPA: 3.95 | ACT: 34
- Honors: Valedictorian, TSA State Champion in Coding (2017) and On-Demand Video Production (2018), 3rd place VEX Robotics (2018), All-State Tennis (2018), President of Zebra TV Newscast (2018)

Claremore, OK

August 2014 - May 2018

Experience

University of Oklahoma

RESEARCH ASSISTANT

- Generated benchmark source files using source-to-source polyhedral model compilers PPCG and PLUTO utilizing the polyhedral benchmark suite PolyBench/C
- Compiled previously collected benchmark source files on the Intel icc compiler and collected their run-time data using UT Austin's supercomputer Stampede2

Norman, OK

January 2020 - Present

Pixorize

SOFTWARE INTERN

- Created an in-house text-editor application that streamlined Pixorize's content creation and management process: built a React app and Express REST API, containerized front-end and back-end using Docker, utilized E2E and unit tests
- Built GUI that automated image thumbnail creation by using React + Cropper.js and Node.js + GraphicsMagick

New York, NY

May 2019 - July 2019

Projects

Html-to-Pdf Creator Tool

- Architected and built Node.js application to quickly generate PDFs from html and css, using express to create a local server from which users can preview and edit PDF pages
- App features production and development modes, a Docker containerized workflow, hot reloading in the preview server, and html data injection

Stock Market Analyzer

- Designed and implemented algorithm to analyze market trends to buy and sell stock with simulation money

Phi Kappa Psi Fraternity Website

- Designed and developed Gatsby website to recruit for and tell information about our local chapter

Ryan Westfall Website

- Created Gatsby portfolio website utilizing github's API to pull public repository data from my profile

Extracurricular Activities

Robotics Club

TEAM PROGRAMMING LEAD

- Sketched robot mock-up, created 3D print components in CAD, laser cut plywood to create chassis, soldered wires to pins/connections on motor controller and microcontroller, and coded autonomous event loop in Arduino

Norman, OK

August 2018 - Present

Phi Kappa Psi Fraternity

SCHOLARSHIP CHAIR

- Designed and implemented academic support plan to improve chapter's GPA average: tracked fraternity members grades, offered academic assistance, scheduled and proctored study hours

Norman, OK

April 2019 - Present

Skills & Interests

Skills: Javascript, React, Express, Docker, Bash, HTML, CSS, Java, C, C++, Python, Gatsby, Git, LLVM, Adobe Suite

Interests: League of Legends, Tennis, Ping Pong, Video Production, Chess, Reading