Ryan Westfall

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EDUCATION

University of Oklahoma, Gallogly College of Engineering   **Norman, OK**
Bachelor of Science in Computer Science, Minor in Mathematics   *Expected May 2022*
GPA: 3.83/4.00 | **Relevant Coursework:** Data Structures, Principle of Programming Languages, Theory of
Computation, Operating Systems, Computer Organization, Applied Statistics, Linear Algebra, Discrete Mathematics

University of Oxford, Brasenose College   **Oxford, United Kingdom**
Honors at Oxford Program   *Jun 2019–Jul 2019*

Claremore High School   **Claremore, OK**
High School Diploma   *Graduated May 2018*
GPA: 3.95/4.00 | **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)

PROFESSIONAL EXPERIENCE

University of Oklahoma   **Norman, OK**
Research Assistant   *Jan 2020–Present*
- Generated benchmark source files using source-to-source polyhedral model compilers PPCG and PLUTO utilizing
- Compiled previously collected benchmark source files on the Intel icc compiler and collected their run-time data using
  UT Austin's supercomputer Stampede2

Pixorize Inc   **New York, NY**
Software Intern   *May 2019–Jul 2019*
- 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

PROJECTS

Html-to-Pdf Creator Tool   *Aug 2020*
- 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   *Jun 2020*
- Designed and implemented algorithm to analyze market trends to buy and sell stock with simulation money

Phi Kappa Psi Fraternity Website   *Feb 2020*
- Designed and developed Gatsby website to recruit for and tell information about our local chapter

Ryan Westfall Website   *Dec 2019*
- Created Gatsby portfolio website utilizing github's API to pull public repository data from my profile

EXTRACURRICULAR ACTIVITIES

Robotics Club   **Norman, OK**
Team Programming Lead   *Aug 2018–Present*
- 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

Phi Kappa Psi Fraternity   **Norman, OK**
Scholarship Chair   *Apr 2019–Present*
- Designed and implemented academic support plan to improve chapter's GPA average: tracked fraternity members
  grades, offered academic assistance, scheduled and proctored study hours

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