

Chuck Dries

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CS student with a focus on web & diverse portfolio of side projects

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Education

BS Computer Science at Arizona State University - Graduating: Spring 2019

Barrett, The Honors College

Relevant coursework:

- | | | |
|---------------------------------------|---------------------------------|--|
| - Object-Oriented Programming | - Discrete Math Structures | - Algorithms & Data Structures |
| - Calculus for Engineers I, II, & III | - Applied Linear Algebra | - Engineering Probability & Statistics |
| - Physics I: Mechanics | - Digital Design Fundamentals | - Computing Ethics |
| - Univ. Physics II: Elctrc/Magnet | - Algorithmic Problem Solving | |
| - Programming Languages | - Intro to Software Engineering | |

Skills

Web Programming	HTML5, CSS3, Javascript (Vue, ES2015, Node, Express, JQuery)
Other Programming	Java, C, C# (Unity), C++, Python, Scheme, Bash
Design	Photoshop, InDesign, After Effects, Premiere Pro
Etcetera	Leadership experience, Photography, KVM/LibVirt/QEMU, PFSense, Unix

Work Experience

The State Press <i>August 2016 - Now</i>	<u>Digital Developer (Spring & Fall 2017), Graphics Editor (Fall Semester 2016)</u> <ul style="list-style-type: none">Created the Graphics desk from scratch to meet the needs of a new generation of news mediaDeveloped automated tools to streamline content productionManaged creative projects and the artists involved in themEnsured editorial deadlines were met
Desert Community Robotics <i>March 2013 - July 2016</i>	<u>Teacher</u> <ul style="list-style-type: none">Taught classes in Lego Mindstorms robotics, web design, video production, basic physics and mechanics principlesRan a technology summer camp that included everything listed above and Seaperch underwater robotics

Project Experience

Chat Plaform <i>Techbuds Solutions</i>	<ul style="list-style-type: none">Slack clone with custom features for stock tradersFront end Vue.js and Socket.ioBack end Node, Mongo, <u>socket.io</u>running on Docker + Kubernetes, load balanced with NginxBuild process so complex I'm proud of myself for setting it up (webpack)
Virtual Keyality <i>Desert Hacks 2017</i>	<ul style="list-style-type: none">VR Typing game in Unity1st place winner at Desert Hacks 2017
Volunteer Management Portal <i>Opportunity Hack 2016</i>	<ul style="list-style-type: none">Tracks time in, time out, total hours, attendance, etc. for volunteers and events.Back end Mongo, Node, ExpressFront end Nunjucks & Bootstrap
Sorting Algorithm Visualizer <i>Personal Project</i>	<ul style="list-style-type: none">Visualizes a variety of sorting algorithmsCustom, performant UI with Two.js

Community Service, Honors, and Awards

First Place	<i>Desert Hacks 2016</i>
Third Place	<i>Opportunity Hack 2016</i>
Eagle Scout	<i>The Boy Scouts of America</i>
The President's Volunteer Service Award	<i>The White House</i> Awarded by the White House for over 200 hours of service given to Phoenix Children's Hospital.

Other Experience

- **The State Press** - Staff Photographer
- **Gilman Law Offices** - IT Consultant
- **Safeway** - Starbucks Barista
- **Firebird Robotics** - Lead Web Designer
- **Chaparral Ashes** - Graphic Design Editor

Fun Facts & Side Projects

- My primary OS is Windows 10, but it runs fully virtualized on top of Slackware Linux with access to all of my physical IO and my GPU, and is itself installed on a physical NVMe SSD. I store my files on a group of SMB shares hosted by Slackware. This was harder to set up than it sounds and I am proud of it.
- I started learning HTML in 7th grade, and building raw, pure HTML+CSS layouts from scratch is still one of my strongest skills.
- I'm working on a virtual reality gardening game in Unity for the SteamVR/Vive platform.
- I built and maintain a cloud copy paste solution because I got tired of manually typing code from tutorials.
- I'm about to deploy a Slack bot at The State Press that interfaces with their CMS to notify writers when their content publishes.