

# Ivy Duggan

they/them (f.k.a. ethan)

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## SKILLS

<b>Website Dev</b> Advanced	<b>UNIX Dev</b> Advanced
<b>Android Dev</b> Intermediate	<b>GIT Flow</b> Advanced
<b>Agile/SCRUM</b> Intermediate	<b>Arduino</b> Intermediate

## LANGUAGES

<b>Typescript</b> Advanced	<b>Python</b> Advanced
<b>Java/Kotlin</b> Intermediate	<b>C++</b> Intermediate
<b>HTML</b> Advanced	<b>C#</b> Intermediate
<b>Bash</b> Advanced	<b>Perl</b> Intermediate

## TECHNOLOGIES

<b>React</b>	<b>Vue</b>
<b>Angular</b>	<b>Node</b>
<b>Docker</b>	<b>CI/CD</b>
<b>IoT Devices</b>	<b>ElasticSearch</b>
<b>Wordpress</b>	<b>.NET</b>
<b>SQL</b>	<b>RESTful APIs</b>

## Software Developer, Cognitive Scientist, & Engineer.

I'm a recent college graduate who has spent 10 years immersed in the tech scene, mainly in and around start-ups in Las Vegas, ever since I developed and published my first app, LazyHusband.

I've worked in large and small companies on everything from genetic analysis to physical therapy to pill dispensers. Mobile apps, websites, back-end, physical engineering & 3D printing, native Windows/Linux, and even Perl, I've tried a little bit of everything!

## WORK EXPERIENCE

**Amazon Music** (June 01, 2021 - September 01, 2021)  
Software Development Engineer

- Designed, developed, and delivered comprehensive statistical analysis & data visualization API & front-end in Python & Java.

**Concierge Software Design** (June 01, 2017 - June 01, 2021)  
Software Developer

- Refactored C/C++ genetic analysis suite for University of Nevada, Las Vegas.
- Implemented and optimized Python-based 3D body tracking software using quaternions & linear algebra.
- Inherited, secured, and updated legacy React website while in production.
- Built an IoT-enabled, in-house 3d designed/printed, novel pill dispenser.

**Amazon Music** (June 01, 2020 - September 01, 2020)  
Amazon Future Engineer

- Developed real time ElasticSearch API to dynamically search > 300 million record database.
- Wrote scripts to calculate average lines of code per hour per developer.

**MER LV Labs** (January 01, 2011 - January 01, 2013)  
Application Developer

- Designed & developed mobile app at age 12.
- Spoke at SxSW V2V
- Attended dozens of community tech meetups.

## EDUCATION

**University of California San Diego** (September 23, 2019 - June 16, 2023)  
Bachelor's degree, Cognitive Science GPA: 3.7

Specialization in Design & Human Interaction. Minor in History.

Linear Algebra    Research Methods    Data Science in Practice

Data Driven UX/Product Design    Sustainable Development & Design

Statistical Analysis    Multivariable Calculus

## CURRENT PROJECTS

**HomeLab**  
Self hosted server/NAS for backups & to support other projects.

**3D Printer**  
Octoprint-enable RPI attached to Ender 3 v2 Neo 3d printer.

**openGuitar**  
Open sourced wiring standard enabling interchangeable modules.

**LFNP**  
Ubuntu configuration tool for tech averse users.