

Philip Prater

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EDUCATION

Grad Prep Program | Portland State University
(Equivalent to first 3 years of a B.S. in Computer Science)

9/2017 - 6/2019

B.S. Chemistry | Oregon State University
Minor: Business and Entrepreneurship
Graduated Cum Laude

9/2011 - 12/2015

TECHNICAL SKILLS

Programming Languages

Python
C++
TypeScript
Dart/Flutter
Java
SQL

Tools & Frameworks

Git/GitHub
Various IDEs
React
Node
Postgres
Flask

PERSONAL PROJECTS

Brew Notes App

Android app made with Flutter/Dart to help home-brewers keep organized notes on their phone. A user keeps track of different recipes (beer, cider, etc.) and can take notes on how different attempts at each recipe went, or log data such as daily temperature readings. Had to learn how to manage/pass state across multiple page components using packages like provider.

Spellbook App

Single page React/Typescript app meant to help players better manage their spells for playing 5th edition Dungeons and Dragons. Users set their class and level from a form, then the app queries an API and presents what spells can be used and some class-specific resources. Mostly an excuse to use a cool API I came across and practice Typescript/React.

Choose Your Own Adventure Game

Python command line game to refresh on various basics and the language itself. Reads a simple story from a .json file, loads an array of 'rooms' that have a description and options for a player, each option tells the player what happens as a result of being picked and provides the location of the next 'room' the player will move to as a result. The player also has an inventory that is used to determine if certain options are available in a room.

EXPERIENCE

Shop Hand | Reimers & Jolivette Inc.
Construction Labor

1/2016 – 9/2017
(Part-time/Seasonal 6/2011 – 3/2020)

Engineers Without Borders PSU Chapter

12/2019 – 2/2020

Contributed to a student project to improve usability of the Portland 211 website, which helps guide people in need or crisis to the appropriate resources. Added a reverse-geolocation React component that used the Google Maps API to help determine what resources were available in a user's county.

Independent Contractor | Amorphyx Inc.
Amorphous Metal Thin Films for use in LCDs

7/2014 – 5/2015

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EXPERIENCE (continued)

Undergrad Research Assistant | Loesgen Lab Group OSU 9/2013 – 6/2014
Natural Products Discovery, Analyzing Secondary Metabolites of Exotic Bacteria and Fungi

College Radio Personality | KBVR (Oregon State University) 1/2013 – 6/2015
Co-host, DJ, and segment developer for 'What's Good?'. Worked with a friend to share the music we enjoyed, be positive, and dig through the station's CD closet for new music once a week. Also developed and got approval for various talk segments that had to be prepared before each show. These ranged from news about people stealing macaroni salad, to subjecting myself to and reviewing free or nearly-free video games.

Undergrad Research Assistant (limited term position) | Loveland Lab Group OSU 4/2013 – 6/2013
Testing Resolution of the Fission Time Projection Chamber at Lawrence Livermore National Laboratory

Summer Intern | PSU Saturday Academy / Reed College Research Reactor 6/2010 – 8/2010
Prompt Gamma Neutron Activation Analysis