

# Jakob Paulson-Palmer

*Seeking to apply my skills and work as a software developer with a team of like minded peers to create powerful and efficient new technologies.*

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## EXPERIENCE

### **Data Science Certificate Program, Berkeley Extension School**

December 2021 - expected July 2023

- In Progress: [Introduction to Databases](#)
- Used Tensorflow 1.X and 2.X to create a variety of models including K-means Linear and Logistic Regression; as well as graphs using Tensorboard.
- Applied data mining skills to perform exploratory analysis and application of regression to predict the price of a house.
- Explored SMOTE upsampling techniques and downsampling application on a dataset to reinforce learning of a linear model.
- Employed feature normalization to prevent overfitting in multiple models.

### **Full Stack Contract Developer, 10,000 Days LTD.**

February 2021 - November 2021

- Developed a web app that aims to simplify all stages of ones financial journey using Next.js alongside a team of three co-developers
- Integrated MongoDB models with GraphQL queries for fast and efficient population of business/user related data, as well as assets from Azure Blob storage.
- Setup OAuth 2.0 for secure client and customer login.
- Used React to create complex functional and state components, producing a seamless user onboarding profile that persists between sessions.

### **Full Stack Contract Developer, Fresh Grease Inc.**

Contract: December 2020 - January 2022

- Developed and deployed a functional progressive webapp using the MERN stack to provide tools geared towards bike part compatibility.
- Experienced working in a startup environment and assisted in product direction and marketing decisions.
- Expedited development by creating tools with python for the entire team.
- Used Mongo Database, GraphQL and Google OAuth to deliver a scalable backend.
- Implemented popular API's including e-commerce and content management solutions.

## PROJECTS

### **Willamette University Thesis: Android Carbon Footprint Calculator (Kotlin, Android, Firebase) -**

[github.com/jakobmpalmer/WU-Capstone-Project](https://github.com/jakobmpalmer/WU-Capstone-Project)

For my senior thesis in Computer Science, I developed an android application to interactively educate people and assist them in becoming more environmentally conscious. For this process I lead the team to leverage new technologies including Kotlin, Firebase and Android. Maintained Github branches to achieve version management across the team.

### **HexaPawn Genetic Algorithm (Java) - [github.com/jakobmpalmer/HexaPawn](https://github.com/jakobmpalmer/HexaPawn)**

I created a genetic algorithm trained to win any 3x3 game of hexapawn via route learning. The bot is able to win any following match after around winning thirteen games. The game and bots were written in Java, and bots may be saved or exported using their configuration via text file.

### **NCL Ethical Hacking Participant - [National Cyber League](#): February 2018 - February 2020**

Competed in (6) NCL seasonal games for their fall and spring cyber competitions over three consecutive years. During this competition I built skills in cyber security through an offensive and defensive based competition both with a team and individually.

## EDUCATION

### **Willamette University, Salem Oregon**

Computer Science May 2020

Kappa Sigma Theta Delta

### **UC Berkeley Extension School,**

*Data Science Certificate* (In Progress)

Expected completion July 2023

## SKILLS

### **Languages:**

*Experienced with:* Python, Java, C#, Javascript, SCSS, HTML, Typescript

*Familiar with:* SQL, C, C++, Haskell, Swift, Kotlin

### **Software:**

Tensorflow, MatLab, NodeJS, GraphQL, Yarn, NPM, Apollo, Bulma, AndroidSDK, Unity, GitHub

## RELEVANT COURSES

- Fundamentals of Machine Learning
- Language Logic and Computation
- Machine Learning Theory
- Fundamentals of Data Science
- Functional Programming
- Architecture and Compilers
- Data Structures
- [Python for Data Analysis and Scientific Computing](#)
- [Machine Learning With TensorFlow](#)
- [Data Science Principles and Practice Using Python](#)