

EDUCATION

California State University, Northridge

Bachelor of Science in Computer Science, Cum Laude, completed May 2018

- Coursework Emphasis: AI (Deep and Reinforcement Learning), Software Engineering, Web Dev
- **Dean's List** (3.5+ GPA)
- **Phi Beta Delta Honor Society** (Society for high-achieving international and exchange students)

EXPERIENCE

Associate Software Engineer, Apprenticeship at **Pixerati** • 8 hours/week *Aug. 2020 - Present*
Implemented C++ plugins for Maya to extract and export 3D geometry data to Unreal Engine.
Ran unit and integration testing for interactions of VR components in Unreal and 3D output in Maya.

I.T. Technician & Helpdesk, Full-time at **Bento Box Entertainment** • 40 hours/week *Jan. 2019 - Present*
Provided immediate technology solutions and assistance to personnel. Blackbox tested
Unix shell scripts for server-side software installation, Munki package distribution, and Active Directory.

PROJECTS

NavMesh Pathfinding • Game Artificial Intelligence, Pathfinding *June 2019*
Implementation of A* pathfinding in dynamic environments using Unity's NavMesh components.

Atari Breakout Q-Learning • Artificial Intelligence, Q-Learning *August 2018*
Defined training parameters for an agent to play OpenAI Gym's 'Atari Breakout' using TensorFlow.
After 30 training episodes, the agent averaged game-winning reward values. Output in Jupyter notebook.

Universal Finance Manager • Software Engineering *Sept. 2017 - May 2018*
Android application that provides tracking and budgeting of personal finance. Made in
an Agile/Scrum cycle. Utilizes a local Room database and Dagger dependency injection.

TensorFlow Image Classifier • Artificial Intelligence, Machine Learning *February 2018*
Re-trained Google Codelab's neural network to classify images of rabbit species as well as
differentiate them from 'unknown' objects up to an accuracy of 99%.

Tsarbucks • Web Development *October 2017*
A fictional coffee shop's web app that lets customers/employees enter/fulfill orders. Back-end
programmed in PHP and hosted on a local MySQL database via a phpMyAdmin instance.

Accountabillibuddy • Software Engineering *Feb. - May 2017*
Java desktop application that predicts the profitability of stock market investments. Utilizes the
Yahoo! Finance API and a PostgreSQL database hosted on AWS' Relational Database Service.

SKILLS

Computer: *Primary:* C++, Python, HTML, CSS, JavaScript ES6, jQuery, MySQL, TensorFlow, Unity, Git
Secondary: Java, PHP, Node.js, Socket.io, Android SDK, Maya, MIPS Assembly, Verilog HDL

Natural Languages: English, Urdu

EXTRACURRICULAR

Volunteer at TreePeople • 20 hours • Paramount Ranch, Agoura Hills, CA *December 2020*
Planted Walnut and Willow tree saplings and weeded harmful grass in an environmental
conservation effort to prevent the overabundance of natural wildfires.

Backend Developer Track at Matador Emerging Technology & Arts Lab *Jan. 2017 - Jan. 2018*
Web development courses and meetups hosted by CSUN's META+Lab. Deployed web
services utilized at the university involving Node.js, Express.js, Vue.js, MongoDB, and Laravel.

Volunteer at UNESCO World Heritage Centre • 24 hours *September 2014*
Handcrafted goods and helpful items to empower victims of the 2014 Pakistan floods.
Promoted local crafts and souvenirs to fundraise at on-site craft shops.