

SUNANTH SAKTHIVEL

(503) 442-4834

• sunanth@pdx.edu •

8848 SW Marseilles DR, Beaverton, OR 97007

Education

Masters in Computer Science

Portland State University, Portland, OR , Expected: Spring 2020 w/ op to accelerate; **GPA: 3.93/4.0** (Bacc CS GPA 4.0)
Representative Coursework: CS 510 (Artificial Intelligence), CS 510 (Operating System), CS 584 (Alg Des/Anlys.), CS 586 (Intro Database Mgmt.), CS 594 (Internetworking Protocols), CS 510 (Rust), CS510 (agile XP), CS 161 (C++), CS 162 (C++), CS 163 (Data Structures), CS 250 (Discrete Structures), CS 201 (Basic Systems Pro), CS 251 (Discrete Structs Cont.), CS 202 (Programming Systems), CS 300 (Elem Software Engr.), CS 311 (Computational Structures), CS 333 (Intro Operating Systems), CS 320 (Principles of Prog Lang.), CS 350 (Alg and Complex.)

Bachelors in General Science

Oregon State University, Corvallis, OR, Received: March 2014; **GPA: 3.99**
Summa Cum Laude; Top 10% College of Science

Experience

Side Projects

December 2018 - January 2019

- **Google Chrome Extension:** Developed and published chrome extension SoundFound. A light weight extension that helps users quickly locate and manage audible tabs.

Competitions

January 2019 - February 2019

- **2019 MIT Battlecode:** Participant for MIT's programming competition. Challenge involves generating AI to win strategic battles against other bots.

Notable Academic Projects

Portland, OR

Portland State University

September 2016 -

Present

- Created Hexapawn chess AI bot using Adversarial Algorithms
- Worked with AI search algorithms such as A*, Minimax (w/ pruning), and Genetic Algorithms
- Simulated IMDb database with popular movies using postgresQL
- Created an Internet Relay Chat system which allows local users to communicate via "virtual" rooms
- Created an image manipulation program in Rust with various features
- Added a series of special processes such as scheduling and memory management to xv6 operating system
- Developed a role-playing Minesweeper game using Agile software development
- Analyzed Big-O time complexities of various search algorithms using automated testing
- Incorporated object-oriented and procedural programming paradigms
- Implemented lists, trees, heaps, priority queues, graphs, sorting, abstract data types and hashtables
- Project source code: <https://github.com/sunanth123>

Skills

Programming Languages: C, C++, C#, Python, Java, Javascript, Scala, HTML, SQL, Rust, Haskell, Curry, Markdown

Software: Atom Editor, Visual Studio, Git, Photoshop, Microsoft Office, PuTTY , MobaXterm, IntelliJ, Wireshark, LaTeX

Operating System: Linux and macOS

Other: Versatile leadership ability and excellent communicator

Languages: English, General Spanish, Passive fluency in Tamil