Arun Ramachandran

ramachandran.arun@outlook.com

Personal Info

Nationality: USA

Education

National Institute of Technology, Trichy B. Tech.

Computer Science and Engineering 2014-2018 CGPA 8.43

Links

github.com/jhurricane96 linkedin.com/in/aramach

Languages

C • C++
HTML • CSS
Javascript
Intermediate
Java • Python
MATLAB/Octave
LATEX

Tools & Tech

Web | Backend Node.js • Express.js MongoDB • Socket.io Web | Frontend jQuery • Bootstrap WebGL with Three.js

Platforms
AWS • Serverless

Voice Recognition with Alexa Skills Kit Build Tools

ANT • CMake

Version Control Git

Experience

Oct 2016–Now Code Character

Lead Programmer

- Event in Pragyan '17, the international techno-management festival of NIT Trichy. Players upload AI to control troops in a real-time strategy simulation.
- Leading a team of nine programmers to make an automated multi-threaded simulator in C++ that can run both with a renderer and in headless form.
- Providing sophisticated path planners to move troops in formation using graph searching and steering behaviours.
- Using CMake to provide easy cross-platform builds of dynamic libraries.

May-Jul 2016 Amazon Development Center, India

Software Engineer Intern

- Worked on an Echo-driven Tech Conference, where Amazon Echo devices use voice recognition to act as help desks and MoC's.
- Used the Alexa Skills Kit and Java to build the Voice User Interface.
- Built a fully server-less back-end to power multiple clients with Node.js, AWS and Server-less. Used JWT for authorization and authentication.

Projects

Apr-Oct 2016 Chess AI

github.com/jhurricane96/chessai

- Made a self-learning chess AI, which learnt weights from old games using temporal difference learning.
- Used piece values and piece square tables for move evaluation.
- Used MTD-f with Alpha-Beta Negamax and transposition tables for move selection.

Aug-Sep 2015 Grav Guy

festember.com/~arunr

- Made a 3D video game with WebGL and Three.js to promote Festember '15, the national inter-collegiate cultural festival of NIT Trichy.
- · Received over 16,000 plays.

Awards

Aug 2016 InOut 2nd place

Made a voice-based interactive bot that teaches students over a basic telephone and answers basic queries, all in Hindi, for InOut '16, one of India's largest student-run hackathons, hosted by NIT Surat.

Apr 2016 Ventura

Best Business Model

Won 'Best Intra NITT Business Model' in Ventura of E-Summit '16, a national level hackathon and entrepreneurship summit conducted by E-Cell, NIT Trichy.

Feb 2016 Three's a Crowd

3rd place

Showcased ability to split tasks effectively and to work efficiently in a team in Pragyan '16, the international techno-management festival of NIT Trichy.

Jan 2016 Onsite Programming Challenge

2nd place

Showcased knowledge of and aptitude for programming and algorithms in Vortex '16, the national level technical symposium of the department of Computer Science and Engineering, NIT Trichy.

Jan 2016 Code O Soccer

3rd place

Coded robots to play soccer using finite state machines in Kshitij '16, Asia's largest technomanagement festival conducted by IIT Kharagpur.