

Arun Ramachandran

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Education

National Institute of
Technology, Trichy

B. Tech.

Computer Science
and Engineering

2014-2018

CGPA 8.43

Github

github.com/jhurricane96

Languages

C • C++ • Java

HTML • CSS

Javascript

Intermediate

C# • Python

Tools & Tech

Node.js • Express.js

MongoDB • Socket.io

AWS • Serverless

MATLAB/Octave

Voice Recognition

with Alexa Skills Kit

ANT • JWT • Git

WebGL with Three.js

jQuery • Bootstrap

L^AT_EX

Experience

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 2016–Now

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.

Feb 2016

Maze Game

github.com/jhurricane96/mazegame

- Made a maze video game that can be controlled with controls drawn on a paper with a graphite pencil.
- Used DFS to randomly generate the maze, an Arduino for the controller and Node.js to act as a server that would listen on a serial port to the Arduino and fire key events.

Aug–Sep 2015

Grav Guy

games.festember.com/grav-guy

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

Jul 2015

Osmos

- Made a remake of the popular iOS game Osmos using HTML canvas and Socket.io.
- Played on a computer, but can use a mobile phone as a controller.

Awards

August 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 techno-management festival conducted by IIT Kharagpur.