

Yash Vardhan Sharma

(979) 985-8287 | yashvardhan@tamu.edu | linkedin.com/in/yashvardhansharma

EDUCATION

Texas A&M University

Master of Science in Computer Science GPA 4/4

Selected coursework: Machine Learning, Analysis of Algorithms

College Station, Texas

May 2018

Birla Institute of Technology

Bachelor of Engineering in Computer Science GPA 3.23/4

Mesra, India

May 2013

TECHNICAL SKILLS

Programming Languages: C/C++, Java, OpenGL ES, SQL, GraphQL, Spring, Rest API, Ruby on Rails, Python, JavaScript

Tools and Libraries: Perforce, Git, Maven, Jenkins, Docker, Tensorflow, Scikit-learn, Pandas, Cassandra, JUnit

EXPERIENCE

Intuit

Plano, Texas

Software Engineer Intern(Backend)

May 2017 - August 2017

- Built a new web service to improve the collaboration between accountants and clients in ProConnect Tax Online
- Developed new feature in an existing web service to enable exchange of documents in QuickBooks online
- Created an Amazon Alexa skill that helps accountants to create requests for documents using voice commands

Samsung Research India

Noida, India

Senior Software Engineer

March 2015 - July 2016

- Developed new APIs for MultiScreen Framework (MSF) Android library improving discovery of smart TVs by 10%
- Solved numerous market issues of MSF, which connects TV with mobile devices, in Orsay and Tizen platform
- Implemented support of OpenSSL, BoringSSL and dynamic user permissions for Android 6.0 in MSF Android library
- Automated code merging mechanism for all TV platforms to reduce code build, verification and release time by 30%
- Enhanced MSF to provide the connectivity features of smart TV in LFD, which is a commercial display solution
- Built DIAL framework for launching YouTube, Netflix on Samsung Blu-Ray Disc Player

Software Engineer

June 2013 - March 2015

- Developed inter-process communication mechanism in Native Game framework for Smart TVs, enhancing performance of C++ based games on TV by 15%
- Built a Proof of Concept for Cloud Gaming, which is a framework that help users to play, pause and resume games across different devices such as smartphones, tablets and smart TVs
- Contributed to the development of *open source libraries* SDL, SDL_image and SDL_mixer, submitted 3+ patches

PROJECTS

Optimizing WOM codes using deep learning

- Developing a new approach for Q-ary fixed rate WOM codes that guarantees rewrites in n cell flash memory using generative adversarial networks. This project is a part of my thesis under Dr. Andrew Jiang
- Optimizing construction of 3-dimensional lattice tiling

Technologies: Tensorflow, Keras, Python, Convolutional neural network

Data warehouse for Dominick's Finer Foods

- Built 10 data marts to solve 15 business questions required to improve sales across different domains

Technologies: SSAS, SSRS, Report builder, SQL server

Amazon Alexa Skill for Intuit QuickBooks Online

- Created an Alexa skill that helps accountants to get updates, send requests, read comments etc. from clients
- Developed authentication mechanism that enables accountants to login via Alexa app on smartphone

Technologies: Java, Servlets, Cassandra

Web application BooksforAggies (In-progress)

- Built a website helps students to rent, lend and share books. It will be integrated with TAMU Library in future

Technologies: Frontend: HTML, JavaScript Backend: Ruby on Rails