

Sashankh Chengavalli Kumar

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Education

Bachelor of Computing (Honours) in Computer Science <i>National University of Singapore</i>	GPA: 4.32/5 2016 - 20
Padma Seshadri Bala Bhavan Senior Secondary School, KK Nagar, Chennai <i>Computer Science Stream</i>	96.4% 2001 - 16

Technical skills

Programming Languages: Java, C, Python, Javascript (Node.js), MATLAB

Coursework: Computer Vision, Intro to Security, Data Structures and Algorithms, Probability Theory, Mathematical Statistics, Calculus, Discrete Mathematics, Artificial Intelligence, Software Engineering

Other skills: Working proficiency with Linux (VM/Native) and Windows, Docker, Terraform, Basic HTML and CSS, Agile Methodologies, REST APIs, AWS EC2

Work Experience

Autodesk Asia Software Development Intern Interned with the Design Graph Team of Autodesk Singapore to develop a cloud platform for Machine Learning (ML) solutions to 3D data problems. Evaluated ML algorithms, and contributed functional and test code to the Software Development process for the supporting cloud infrastructure, following Agile practices. Worked with NodeJs, Python and C	May 2018 - Oct 2018
AITreat Pvt Ltd Software Development Intern Worked with voice control using open source speech recognition and Microsoft Speech recognition services and initiated a data collection process for improving a massage robot's performance.	Dec 2017 - Jan 2018
NUS Computing Undergraduate Teaching Assistant - Programming Methodology Conducting weekly tutorial sessions to familiarize students with computational thinking and programming in C, grading bi-weekly programming assignments, practical examinations, and scheduling consultations with students.	Aug 2017 - Dec 2017

Projects

BackEnd Development - Video Search App iNTUition Hackathon Developed and deployed a backend in NodeJs and Python to implement a video search functionality (Command + F) to find phrases in videos, using OCR and speech to text. Was responsible for OCR, API Server and deployment to EC2 instance.	Oct 2018
Winner: Best Annoying Hack Hack-n-Roll 2018 Developed a chrome extension to capture user usage data and tweet using the Twitter API, to demonstrate security breaches.	Jan 2018
Infinity Book Software Engineering Developed features and contributed code to a large codebase (5k Lines of Code) in Java, wrote extensive User Guide and Developer Guide sections. Presented effectively for technical and non-technical audience about the product.	March - May 2018
Computer Vision 3D Reconstruction Worked on reconstructing the 3D trajectory of a ping-pong ball based on 3 camera perspectives, using perspective projection. Worked with image processing techniques including edge detection and contrast stretching.	Oct - Nov 2018
Computer Vision Lab Experiments Implemented histogram equalization, contrast stretching, traffic counting, background removal, edge detection and perspective and orthographic projection models in MATLAB without libraries for course assignments.	Aug - Nov 2018
Tetris Bot Genetic Algorithms Implemented a Tetris agent based on genetic algorithms with a best score of 3 million lines cleared, for a team project.	
Assorted Web Apps and Hacks An API Server template for rapid development, front end development using HTML, CSS and Javascript to build a serverless customizable picture montage and MVP for web app to view cost of living data for selected cities. View more here: github.com/ChengSashankh	Oct - Dec 2018

Public Speaking and Debate

Team India Debate: World Schools Debating Championship (WSDC 2014) Selected through rigorous trials to represent India at the international level for schools debate at Thailand. Team placed third at the Asian World Schools Debating Championship from over 30 teams in the run up to WSDC.	Aug 2014
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