PRATIK PARMAR (2016UCS0049)

भारतीय प्रौद्योगिकी
संस्थान जम्मू
**INDIAN INSTITUTE OF
TECHNOLOGY JAMMU**
विद्याधनं सर्वधन प्रधानम्

ACADEMIC QUALIFICATIONS

Year	Degree/Examination	Institute/University	%/CGPA
2016-Present	B.Tech in Computer Science and Engineering	Indian Institute of Technology Jammu	8.19/10.0
2015	Class XII	Kendriya Vidyalaya Mandsaur	91.4%
2013	Class X	Kendriya Vidyalaya Mandsaur	9.8/10.0

SKILLS AND ACHIEVEMENTS

Achievements	• Received Pre-Placement Offer from Amazon. • Secured 4th Position in Coding Hackathon in 8th Inter IIT Tech Meet 2019. • Secured 1st Position in Coding Hackathon in 7th Inter IIT Tech Meet 2018. • Secured 1st Position in Quiz on Science & Technology in KV's Regional Level Jawaharlal Nehru National Science Exhibition 2014. • Secured 1st Position in Class 12th in School.
Skills	• **Programming Languages:** C, C++, Java, Python, SML, Matlab • **Web & App:** HTML, CSS, JavaScript, AngularJs, NodeJs, CreateJs, Drupal, SQL, Ionic • **Misc:** Machine Learning, Deep Learning, LaTeX, GIT, NetBeans, Xilinx, OpenMP, MPI, Cuda, Promela, Socket Programming, Metasploit.

INTERNSHIP AND WORK

SDE Intern	• Internship at Amazon 06.19 – 07.19 • Worked on various Internal Projects of Amazon.. • Used Java, AngularJs, Junit, Mockito, Amazon Web Services (S3, SQS, SNS) etc during Internship.
Mobile App Developer	• Internship with Kilimanjaro Mgmt. Pvt. Ltd. 05.18 – 07.18 • Attendance marking (Fingerprint, GPS based tracking). Payroll Management System. • Used Ionic Framework, AngularJs, Firebase etc.

PROJECTS

Smod	• Developed an Android Application that can be used for Progress monitoring during road construction. People could use this application to notify the government regarding potholes or bumps present on the road. • Used accelerometer and gyroscope to detect bumps and pothole on road. • Tech Stack: Ionic Framework with Angular, Firebase.
Network Security	• Implemented Substitution Permutation Network, RC4 and ChaCha20 algorithms. (Java)
Quality Assessment for 3D Synthesised Images	• Developed an Algorithm to predict objective score for quality of 3D synthesised images. • Obtained PLCC value 0.77 with my algorithm.
Panorama	• Used Homography matrix to stitch images together to form a panorama image. (Python)
Banking Management System	• Developed a Desktop Application for Management of Banking services. This application would work on a computer network. (Java) • Designed BCNF level normalized MySQL Database. Used Triggers and transactions to ensure ACID properties are followed.
Canvas Wrapper	• Developed a Parser to facilitate web games to work on KaiOS. (JavaScript)

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Indian Institute of Technology Jammu

Convolutional Neural Network	▪ Implemented CNN from scratch to predict the quality of images based on its DMOS value. (Python)
Image Enlarger	▪ Used Linear Regression to determine dependency of a pixel on its adjacent pixels. ▪ Created an Enlarged Image by adding more pixels into the image. (Python)
Pocket Tanks	▪ Developed an Aim and Shoot game involving tanks.(NodeJs, SQL, CreateJs) ▪ Computer Player. Multiplayer Support. Chatting. Player's Statistics.
Calculator	▪ Command Line calculator. LR Grammar. Infinite Precision. (SML)
Assembly Compiler	▪ ARM Assembly Compiler for Linux. Pipelining of Instructions.(C++)
Markdown Compiler	▪ HTML page generation from Markdown formatted text.(SML)
AC Circuit Solver	▪ NET-LIST Format input. Circuit Image Generation. Circuit Solving using Nodal Analysis. (C++, JavaScript, FLEX)
Screensaver	▪ N-Ball Screensaver. 3D Balls in motion within a Box. ▪ Terrain. Camera Effects. Motion controlling using Keyboard.(C++, OpenGL)
Library App	▪ GUI Application. Automating Record Keeping Process (Java, MySQL)
Mess App	▪ Minimize Food wastage by preparing food for only students availing meal through the app.(Ionic, Firebase)

POSITIONS OF RESPONSIBILITIES

Teaching Assistant	▪ Data Structures and Algorithms. Spring 2020.
Teaching Assistant	▪ Introduction to Computer Programming. Autumn 2018.
Teaching Assistant	▪ Digital Logic and System Design. Autumn 2018.

EXTRA CURRICULARS

Scouts & Guides	▪ Completed 299th National Adventure Camp held at National Adventure Institute Pachmarhi.
NCSC	▪ Participated twice in KVS Intra-Regional Level National Children's Science Congress.
Drama	▪ Participated in a Drama on "Internet Addiction" in Annual Function.
Quiz	▪ Participated in Quiz on Life of Swami Vivekananda in KVS Cluster Level Social Science Exhibition.

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