

Aman Priyadarshi

www.amaneureka.me, aman.eureka@gmail.com

EDUCATION

NSIT, UNIVERSITY OF DELHI

B.E. IN COMPUTER SCIENCE

Expected June 2018 | Delhi, India

CGPA: 7.75

RPVV, SHALIMAR BAGH

2008 - 2014 | Delhi, India

CBSE XII-PCM: 92%

CBSE X (CGPA): 9.2 (out of 10)

LINKS

Github:// [amaneureka](#)

LinkedIn:// [amaneureka](#)

Twitter:// [amaneureka](#)

StackOverflow:// [amaneureka](#)

SKILLS

Python • C# • C/C++ • x86-Assembly • PHP • HTML • CSS

Data Structures • Operating Systems • NT Drivers • Web Application Security • Reverse Engg.

Git • SVN • TFS

ADDITIONALS

STYLUS

An offline handwriting recognition pen like hardware and tensorflow based model that will type what you write. It supports English alphabets and numbers.

IIRAT

A Windows service that runs in the background and let you remotely control your device. Message passing and authentication are done through sockets.

EVENTICO

An event management online platform that will let you add/search/review events with nice user interface.

COLLEGESPACE APP

An Android application to access CollegeSpace updates from mobile platforms, with a push notification feature.

SOCIETIES

2016 - Developer at Open Development Initiative - NSIT

2015 - Joint Secretary at IEEE NSIT

2015 - Web Developer at nsit.ac.in

2014 - Web Developer at CollegeSpace

EXPERIENCE

HACKERRANK | SOFTWARE ENGINEERING INTERN

May 2017 – Jun 2017 | Bangalore, India

- Build testcase parallelization from scratch. Became familiar with Lambda function and used that in parallelization infrastructure. This will reduce turnaround time for submission thus faster processing.
- Improved CodeChecker response time by optimizing internal modules and re-designing Java class name parser.

Dec 2015 – Jan 2016 | Bangalore, India

- Reported & fixed vulnerability that could cause any hacker to gain access over HackerRank's testcases during the running contest.
- Created unit testing framework to test several security related issues in codechecker.
- Integrated Aws C++ SDK in the CodeChecker which ultimately lowered the fetch time from 1.16s to 0.52s.

GOOGLE SUMMER OF CODE '16 | KERNEL DRIVER DEVELOPER, REACTOS

May 2016 – Dec 2016

- Developed SATA-AHCI Driver for windows server 2003 targeting NT 5.2/6 windows storage stack model.
- Enabled win2k3 bootability on newer SATA devices without IDE emulation.
- This new driver will make ReactOS compatible on newer SATA devices and support advanced features like NCQ and fast data transfer with a maximum speed up to 6 Gbps from less than 1 Gbps.

RESEARCH

ATOM OS | REAL OPERATING SYSTEM IN C# FROM SCRATCH.

June 2014 – Present

Conducted research on Operating System and Compiler design. And developed a new OS in C# from scratch using self-designed MSIL compiler. Atom OS is a managed x86 monolithic kernel based OS. I also worked on kernel device drivers such as IDE, PS2, and SVGA.

OPEN SOURCE

SHARPBRAIN | DEEP LEARNING NETWORK DESIGNER & EDITOR.

June 2016 – Present

An interactive editor to design complex neural network without a single line of code, including many machine learning algorithms written from scratch.

T-REX DINOSAUR | REINFORCEMENT LEARNING BASED ALGORITHM.

Apr 2016 – May 2016

Reinforcement learning-based algorithm for T-Rex Chrome game in Javascript. The algorithm learns to play the game all by itself.

HONORS & AWARDS

2017 Secured #325 (world) in the Snack Down Pre-Elimination Round

2016 Indiaskills'16 IT Software Solutions for Business - 3rd Prize

2016 Selected for Indian Programming Camp - CodeChef

2016 Google Summer of Code 2016

2016 Won 24hrs Hackathon HackNSIT - 2nd Prize

2015 July Long (2015) CodeChef #16(world) and #4(India)

2015 HackerRank and CodeChef Vulnerability Report

2014 Vulnerability Reported, 123contactform.com - Hall of Fame