

Aman Priyadarshi

aman.eureka@gmail.com | www.amaneureka.me | +91 9871681464

EDUCATION

NSIT, UNIVERSITY OF DELHI

B.E. IN COMPUTER SCIENCE

2014 - 2018 | Delhi, India

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

PUBLICATIONS

IEEE SSCI - 2018

Synthesis of Neural Networks using
Entangled Neurons

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 online event management platform that will let you add/search/review events.

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

SMART IOPS | MEMBER OF TECHNICAL STAFF

July 2018 - Current | Bangalore, India

- Designed LLVM Compiler Backend for in-house developed micro-controller.
- Optimized and ported assembly firmware to C code using LLVM compiler. This enabled more flexibility in firmware changes and reduced debugging time.
- Defined LDPC architecture & optimized algorithms to generate optimal H-matrix for high-rate, high-girth - hard decision decoding. This enabled us to correct more than 40 errors per frame.

HACKERRANK | SOFTWARE ENGINEERING INTERN

May 2017 - Jun 2017 | Bangalore, India

- Implemented testcase parallelization infrastructure. Became familiar with Lambda functions and used that in parallelization infrastructure. This helped in reducing turnaround time for the submission by faster processing.
- Improved CodeChecker response time by optimizing internal modules and re-designing Java tokenizer.

Dec 2015 - Jan 2016 | Bangalore, India

- Reported & fixed vulnerability that could have been exploited to gain access over HackerRank testcases during the running contests.
- Created unit testing framework to test several security related issues in codechecker.
- Integrated Aws C++ SDK in the CodeChecker which ultimately reduce 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 of upto 6 Gbps compared to current speed of 1 Gbps.

OPEN SOURCE

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

June 2014 - Present

Atom OS is a managed x86 monolithic kernel based OS developed in C# from scratch. Compiled using self-designed MSIL backend compiler. I also developed kernel device drivers such as IDE, PS2, and SVGA.

T-REX DINOSAUR | REINFORCEMENT LEARNING BASED ALGORITHM.

Apr 2016 - May 2016

A T-Rex Chrome game simulation in JavaScript that uses Reinforcement learning-based algorithm to play game all by itself.

HONORS & AWARDS

- 2017 Secured #325 (world) in the Snack Down Pre-Elimination Round
- 2016 Selected for Indian Programming Camp - CodeChef
- 2016 Google Summer of Code 2016
- 2015 HackerRank and CodeChef Vulnerability Report
- 2014 Vulnerability Reported, 123contactform.com - Hall of Fame