

# Gahan Saraiya

I am Firmware Development Engineer working at Intel Technology India Pvt Ltd. having 5+ years of experience with excellent skill and understanding of workflow and architecture of Python, UEFI Firmware, DevOps. I also like to contribute in open source too and spreading the knowledge (#philanthropist for knowledge!). Interested to work in Architecture design of Optimized Quantum Computing Algorithms for Multiprogramming and DevOps.



## Experience

Jun 2020 - Present

### Silicon Firmware Development Engineer

Intel Technology India Pvt. Ltd.  
Platform Lead for next generation client platform, architecture design for USF, Foundation Framework Development for edk2 platform automation and validation Managing end-to-end Software Development Life Cycle including licensing, legals and IP Planning, and various applicable Security and static code analysis. Managing automated testing of functional validation of Firmware with TeamCity, Jenkins and artifact publishing on Artifactory, and publishing webhooks on JIRA

Jun 2019 - May 2020

### Silicon Firmware Development Engineer Intern

Intel Technology India Pvt. Ltd.  
BIOS Firmware Development for Client products with the framework EDK2, UEFI Firmware, Involvement with assessing new debugging solutions and OpenBoard Package

Jul 2017 - Apr 2018

### Software Developer

Quixom Technology  
SaaS-Employee management system (chat, surveys, benchmark, analytics...) and Restful API Development; socket programming in python to receive continuous data from IoT device and display chunks of data meaningfully, web portal for rendering dynamic menu content in Kodi

2015 - 2017

### Freelance

Designer  
Web Scraping, Designing of banner, memento and certificates



## Education

Jul 2018 - Jun 2020

### M.Tech Computer Science and Engineering, Institute of Technology, Nirma University

PPI: 8.49

Aug 2013 - Apr 2017

### B.E. Computer Engineering, GTU

CGPA - 8.08

Jun 2011 - Mar 2013

### 12th Science, GSHSEB

74.92 %

Jun 2010 - Mar 2011

### 10th, GSHSEB

81.4 %



## Achievements and Extra Curriculum Activity

2023

Firmware Configuration Presentation at UEFI Developers Conference & Plugfest

2019-Present

4000+ reputation on Stackoverflow

2017-Present

Active volunteer on Peer Learning, Cultural and team building activity

2018

Rank #1 for Python challenges on hackerrank

2018

Rank #112 from 2lacs+ participants in Techgig's National Coding Contest 2018

2018

Pluralsight IQ 248 out of 300 for Python

2017

Google Admin system Administration for Institute

2016

Zonal Winner in Cyber Security arranged by Braintech 2017

2015

Catch Him If You Can - Ethical hacking workshop by Ankit Fadia

2014

Technical Event and Placement Coordinator

2014

Establishment of complete network for Department



## Personal Info

### Address

Ahmedabad, Gujarat, India

### E-mail

gahansaraiya@gmail.com

### Date of birth

September 09, 1995

### Website

gahan9.github.io

### GitHub

github.com/gahan9

### Medium

gahan9.medium.com

### LinkedIn

linkedin.com/in/gahan-saraiya

### Twitter

twitter.com/mark\_gahan



## Skills

**Languages** - Python, C, Rust, Shell Scripting, SQL, LaTeX, YAML

**Frameworks** - Edk2, Django, PyCUD Pandas, Tkinter, Selenium, Octave

**Tools and Services** - GitHub Actions, Restful APIs, JFrog Artifactory, Teamc JIRA, Puppet, Docker, Docker Compose Jenkins, AWS, GiT, Prezi



## Languages

English

Hindi

Gujarati



## Projects

2022 -  
Present

### Universal Scalable Firmware

**Description:** Architecture design of Platform orchestration layer for Firmware Configuration:

- Motivation of workgroup - [Firmware Configuration – Past, Present, and Future](#)
- [Firmware Configuration](#)

2020 -  
Present

### Firmware Automation Framework

**Description:** Lead SDL for an automation foundation framework for high scaled volume of silicon devices with edk2 UEFI firmware;

- seamless configuration of system without any manual intervention for BIOS configuration.
- SDL activities like legal compliance, security, licensing, static code analysis
- Continuous deployment and test with jenkins and tox configurations
- Release Artifact management to JFrog Artifactory using GitHub Actions
- <https://github.com/intel/xml-cli>

2018

### Consummating Research Projects using Agile Manifesto

**Description:** Utilization of Agile Manifesto for consummating research projects. Enlightening the appropriateness of Scrum for the research projects which is a widely used agile manifesto at present in the software industry.

2018

### Inventory Management and GST Billing for Mobile Shop

Full stack Developer

**Description:** To avoid the headache of manual billing automated GST billing system designed to manage stocks and update according to purchase and sales and generate GST invoice for sales.

2017-  
2018

### Streaming Box

Full stack Developer

**Description:** An alternate streaming service to DTH and providing easy customized IPTV streaming service based on Kodi (formerly xbmc) Framework

- Backend Streaming Service, authentication and server security with Django Framework and REST API
- Web Portal to enable vendor customize Streaming Front-end UI for their users
- Cross compilation and Native compilation to enable various platform support as Android, Windows and MacOS



## Area of Interest

- Quantum Computing
- DevOps



## Interests

- Piano
- Chess
- Gaming
- Workout
- Physics



## Publications

2016  
2023

- A Review on Honeypot : Track the Attack. NCCICT, 2016
- [Firmware Configuration – Past, Present, and Future](#). Presentation, UEFI DevCon 2023

