

# Aayush Aggarwal

Software Engineer @ Google | ICPC World Finalist 2020

## CONTACT

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### LINKEDIN

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## EDUCATION

Indraprastha Institute of Information Technology, Delhi - Class of 2020

B.Tech, Computer Science (Hons)  
Minor in Economics

CGPA: 8.62 / 10

**Technical Electives:** Operating Systems, Computer Networks, Network Systems & Security, Artificial Intelligence, Randomized Algorithms

## SKILLS

### LANGUAGES

C++ • C • .NET • Python • Java  
Go • Powershell • UNIX • Kusto  
SQL • HTML • CSS • JavaScript

### TOOLS & FRAMEWORKS

Git • Perforce • Latex • MongoDB  
Vim • Sublime Text • Visual Studio  
Android Studio • Docker • Arduino

## CLUBS & ACTIVITIES

### Member

FooBar Coding Club, IIIT Delhi

### Member

Evaristé Mathematics Club, IIIT Delhi

### Member

INK. Graphic Design Club, IIIT Delhi

### Event Organizer

Esya 2018 Technical Fest, IIIT Delhi

### Creative Team & Event Organizer

Odyssey 2017 Cultural Fest, IIIT Delhi

## LINKS

Website: [aayush9.github.io](https://aayush9.github.io)

Github: [/aayush9](https://github.com/aayush9)

Codeforces: [/aayush9](https://codeforces.com/profile/aayush9) (Max: 2276)

Codechef: [/aayush9](https://www.codechef.com/users/aayush9) (Max: 2420)

AtCoder: [/aayush9](https://atcoder.jp/users/aayush9) (Max: 1935)

## EXPERIENCE

### SOFTWARE ENGINEER

Google Dublin, Ireland

Feb'22 - Present

- Working with the Counter Abuse Technologies team - it develops platforms and tools that helps protect Google from malicious activity
- **Appeals Service:** Develop an interface for users to file an appeal in case their Google account (or a subset of services) gets disabled, and appropriately handle the appeal
- **Tools:** Go, Java, C++, JavaScript, Protocol Buffers, UNIX, SQL, Mercurial

### SOFTWARE ENGINEER

Microsoft Hyderabad, India

Jul'20 - Feb'22

- Part of the Azure Compute **Autopilot** (AP) team - it offers cloud services to internal teams (Bing, Exchange, Office, XBOX, etc.)
- Maintained & added features to an E2E tool, **IronMan**, used by customer teams to manage their compute environments & allocate/deallocate resources
- **Project Gold:** Worked on IronMan changes and developing a service to migrate AP's cloud config from corpnet (Source Depot - an internal flavour of P4) to cloud (Git)
- **Tools:** C#, C++, Python, Powershell, Kusto, SQL, Git, Perforce

### SUMMER INTERN

Microsoft Hyderabad, India

May'19 - Jul'19

- Worked with the Azure Compute Autopilot team
- Experimented with new approaches to improve the existing container scheduling system for reliability & efficiency using K8s
- The project delivered optimistic results and is currently being worked on as a full-time project by multiple teams across IDC and Redmond
- **Tools:** C#, Go, Python, Powershell, Kusto, Docker, Kubernetes

### UNDERGRADUATE RESEARCH

Supervisor: Dr. Tanmoy Chakraborty

Jun'18 - Dec'18

- Studied collusion & opinion spam on e-commerce marketplaces (amazon.in)
- Crawled the website review data, identified groups using data mining techniques and designed ML models to classify them & study identifying traits
- **Work published** in IEEE Transactions of Computational Social Systems, 2020
- **Tools:** Python, Selenium, MongoDB, Scikit-Learn, Git

### TEACHING ASSISTANT

IIIT Delhi

- Algorithm Design & Analysis
- Competitive Programming

Winter '19

Summer '18

### WORKSHOP TRAINER

Organisation: Codechef

May'18 - Jun'18

- Taught 6<sup>th</sup> - 12<sup>th</sup> graders fundamentals of programming, logic, DS & algorithms
- Curated lesson plans and assessments for logical thinking & programming
- Conducted lectures, assessments, and hands-on activities, after going through rigorous pedagogy sessions from Teach for India fellows

## AWARDS & ACCOLADES

2022 **World Finalist**, Codechef SnackDown 2021 (Held virtually)

2021 **30<sup>th</sup>**, 2020 ICPC World Finals in Moscow, Russia (**1<sup>st</sup>** among Indian teams)

2021 **Cultural Award - Growth Mindset**, Microsoft IDC AzCompute Nov. All-hands

2019 **1<sup>st</sup>**, ICPC Kanpur Regional - Qualified for 2020 World Finals

2019 **All-India 1<sup>st</sup>**, Google Kick Start Round D (Global 10<sup>th</sup>)

2018 **2<sup>nd</sup>**, ESYA'18 Techathlon (a tournament of 6 coding events), IIIT Delhi

2017 **All-India 2<sup>nd</sup>**, Codechef July 10-Day Long Challenge (**24<sup>th</sup>** global)