

Aayush Aggarwal

Software Engineer @ Microsoft | 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

SKILLS

LANGUAGES

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

TOOLS & FRAMEWORKS

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

MISC. SOFTWARE

After Effects • Premiere Pro • Vegas
FL Studio • Illustrator • PhotoShop
Blender • Maya • Cinema 4D • 3Ds

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

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)

EXPERIENCE

SOFTWARE ENGINEER (L60)

Microsoft Hyderabad, India

Jul'20 - Present

- Working with the Azure Compute **Autopilot** (AP) team - it offers cloud services to internal teams (Bing, Exchange, Office, XBOX, etc.)
- **Project Gold**: Migration of AP's cloud config from corpnet (Source Depot - an internal flavour of P4) to cloud (Git)
- **JEDI**: Security & reliability enhancements of Azure services
- **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 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 6th - 12th 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

PROJECTS

Multi-user chat server: A communication app allowing encrypted message & file transmission over TCP incorporating public-private key exchange, along with Diffie-Hellman shared key establishment.

Chain Reaction Game: A multiplayer game made as a java applet similar to the original chain reaction game, with additional features like network play.

ARM Assembly Simulator: A C++ program that interprets and runs programs in the form of ARM assembly instructions, with the five stages of the ARM pipeline.

AWARDS & ACCOLADES

- 2021 **30th**, 2020 ICPC World Finals in Moscow, Russia (1st among Indian teams)
- 2019 **1st**, ICPC Kanpur Regional - Qualified for 2020 World Finals
- 2019 **All-India 1st**, Google Kick Start Round D (Global 10th)
- 2019 **2nd**, ICPC India Online Round
- 2018 **2nd**, ESYA'18 Techathlon, IIIT Delhi
- 2017 **All-India 2nd**, Codechef July 10-Day Long Challenge (24th global)