AVIRAL DASGUPTA
Software Engineer & Designer

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EXPERIENCE

Jul 18 — now   **Amazon (Retail Business Systems – Auto Correction & Enrichment)**   **Software Development Engineer I**

I work on services that perform automated catalog content validation and correction before new items are displayed on *Amazon.com*.

- Designed system to compute a quality score for corrections performed by our services by sampling a subset of requests.
- Built self service capability into Enrichment solution, thus allowing customers to onboard marketplaces faster, and with less developer involvement.
- Launched Enrichment and PACE solutions in Far East (AU, JP) region by leveraging Cloudformation and Live Pipeline Templates. Wrote missing integration tests to make these services' pipelines' full CD.

`Java, Spring, Hibernate, JUnit, Mockito, AWS`

Feb 18 — Jul 18   **Amazon (Retail Business Systems – Auto Correction & Enrichment)**   **Software Engineering Intern**

During my internship, I worked on improvements and fixes for an onboarding solution for services owned by my team.

- Automated a lengthy and error-prone manual onboarding process, freeing up about one developer's worth of time per sprint for other issues.
- Analysed legacy codebase to find and fix system-wide issues involving data races and consistency issues, leading to increased system stability and reliability.
- Set up and customised system for error detection and reporting by replaying production traffic on shadow deployment.

`Java, Spring, Hibernate, JUnit, Mockito, AWS`

Sep 17 — Feb 18   **Bloomberg L. P. (Collaboration – Notes)**   **Software Engineering Intern**

Designed and built a scalable service for publishing real-time note metadata to some of the most popular functions on the *Bloomberg Terminal*. Also developed a reusable UI component allowing other functions to display this data.

- Improved key workflows of *Notes* clients, leading to increased user productivity.
- Simplified integration process, resulting in added integration points in other functions and increased user acquisition for *Notes*.

`C++, Python, TypeScript, GTest`

May 17 — Jul 17   **Plivo (YC S12) (Developer Experience)**   **Software Engineering Intern**

Developed and tested the next version of *Plivo's* Node.js, Java, Python and Go SDKs, as well as new tooling for automatic generation of examples, documentation and code from predefined schema. Also worked on framework and components for as yet unannounced visual developer tool.

- Significantly improved developer productivity leading to a better onboarding experience for clients
- Addressed longstanding customer complaints about existing SDKs

`Java, Python, Node.js, Go, AWS, Flask, SQLAlchemy`

Mar 16 — Aug 16   **Google Summer of Code · Matrix.org**   **Student Developer**

Worked on enhancements for the *Riot* IM client, including a new rich text editor based on Draft.js, a flexible and extensible autocomplete system, as well as a Slack Webhook API compatible Application Service.

- Enabled several productivity usecases through the Slack Webhook compatible AS, like Prometheus and Gitlab integrations.
- Usability enhancements for an improved user experience, and higher user retention.

`React, JavaScript (ES6), Go, Node.js`

AWARDS & ACHIEVEMENTS

2017   **TADHack Global Hackathon**   **London Winner & Matrix.org Prize Recipient**

Won prizes for *Pushtime*, a Chrome extension and Android app I wrote to sync clipboards, phone health, OTPs, and more securely over the Matrix protocol.

2016, 2017   **Mindfire Debasish Das Memorial IT Quiz**   **Winner**

Placed 1st and 2nd respectively in this tech quiz organized by *Mindfire Solutions*.

2016   **HackerEarth Indiahacks – Online Commerce Track**   **National Finalist**

Developed and pitched IVR backed automated delivery tracking solution, *TrackShack*.

| 2015 | **Angelhack Vizag** | **Grand Prize Winner** |

Invited to exclusive *Hackcelerator* programme and *Angelhack*'s Global Demo Day in San Francisco, for Android testing, user feedback and deployment tools startup, *Codeorb*.

| 2013 | **Syscan Hardcode Secure Coding Contest** | **2ⁿᵈ at Singapore World Finals** |

Designed & developed *Gridlock Exchange*, a security-focused e-commerce platform, and performed successful penetration tests on competitors' apps.

| 2010, 2012 | **Google Code-in** | **Grand Prize Winner** |

Awarded grand prize twice by *Google* for open source work with *Sahana Software Foundation* (Sahana Eden - Disaster Management Platform) and *Tux4Kids* (TuxMath - Educational Game).

| 2011 & 2012 | **TCS IT Wiz** | **World Finalist** |

Placed 2nd and 3rd respectively in the international finals of this technology quiz contest organized by *Tata Consultancy Services*.

EDUCATION

| 2014 — 2018 | **KIIT University, Bhubaneswar (8.4/10)** | **Bachelor of Technology *in* Computer Science** |

| 2001 — 2014 | **Loyola School, Jamshedpur** | **ICSE & ISC Pure Science *with* Computer Science** |