



# AVIRAL DASGUPTA

Software Development Engineer 📍 Dublin, IE

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## RECENT EXPERIENCE

Google (AdsML SRE) Nov 19 – now

Software Engineer II, Site Reliability Engineering

I am responsible for the data extraction, storage and ML experimentation, training & serving platforms that support ML teams across Google, both as a first responder for production incidents, and as a developer with a reliability/scalability focus.

C++ Go Python SRE

Amazon (RBS - Auto Correction & Enrichment) Feb 18 – Sep 19

SDE I & SDE Intern

I worked 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.
- 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.

Ruby Python Java Spring Hibernate AWS

Bloomberg L. P. (Collaboration - Notes) Sep 17 – Feb 18

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

Google Summer of Code · Matrix.org Mar 16 – Aug 16

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

## SELECTED AWARDS & ACHIEVEMENTS

TADHack Global Hackathon 2017

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.

Angelhack Vizag 2015

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.

Syscan Hardcode Secure Coding Contest 2013

2<sup>nd</sup> at Singapore World Finals

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

Google Code-in 2010, 2012

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).

## EDUCATION

KIIT University, Bhubaneswar (8.4/10) 2014 – 2018

Bachelor of Technology in Computer Science

Loyola School, Jamshedpur 2001 – 2014

ICSE & ISC Pure Science with Computer Science