



Bihar, India.

52+ open source projects.

Dozens of community workshops.

3 successful startups worldwide.

17+ cross-genre songs.

References

Jacob Wallraff — Software Engineer, GitHub
thjeggman@github.com

Ajay Kumar Aswal — Software Developer (Previously), Allihoop
aswal.ajay@hotmail.com

Harsh Gupta — Chief Marketing Officer, Clienty
harsh@clienty.com

Experience

Longshot Systems
Software Engineer (October 2024 - Present)

Longshot Systems is a small company producing high throughput, low latency trading software and tools for use in sports betting markets. Our core stack is built around the RabbitMQ messaging system with the majority of the components written in Go and Python.

Experience Stack:

- Go
- Reverse Engineering
- Low-Latency Applications
- High-Frequency Applications
- Amazon Web Services
- Pythub
- RabbitMQ

Travelopia
Product Engineer (March 2023 - September 2024)

Travelopia brings together over 2000 colleagues from around the world, who work together to create industry-leading travel experiences. When Enchanting Travels joined Travelopia in 2019, the Bengaluru engineering workforce rose to power. Engineer for planning, designing, and developing brand projects under different teams.

Experience Stack:

- Amazon Web Services
- Node.js
- Nest.js
- React
- Serverless
- HubSpot
- PandaDoc

GitHub (Program Equity)
Mentor (September 2022 - September 2023)

Mentor for the fall batch of MLH and non-MLH fellows under GitHub in their contributions to Amplify, the open source application by Program Equity that helps raise support for advocacy groups.

Experience Stack:

- Civic Tech
- Developer Relations
- Community Management
- Vue.js
- Express.js
- GitHub Actions
- LoB API
- Cicero API

The Collab Lab
Mentor (March 2023 - June 2023)

The Collab Lab increases access to web development jobs for early-career developers and, in particular, people in under-represented groups in tech by providing essential skills training in software team collaboration and career management. Managed a team of 4 developers for building a smart shopping list project.

Experience Stack:

- React
- Firebase
- Project Management

Global Governance Initiative
Product Manager (March 2023 - July 2023)

Global Governance Initiative is an alternative MBA and Policy school led by global CEOs to build an inclusive society. Managing the development of ongoing and future projects.

Experience Stack:

- Node.js
- React
- Spreadsheets
- Automation
- Python

Howdy
Software Developer (April 2022 - May 2022)

Howdy is a plug-&-play video & chat technology that supercharges user experience with just a few clicks. Developing the full-stack web application.

Experience Stack:

- Front-end web application in React.
- APIs using Node.js.

Program Equity, GitHub @ MLH Fellowship (Major League Hacking)
Open Source Contributor (May 2022 - August 2022)

Under the well-known MLH Fellowship, the Open Source Programme is an opportunity to learn how to be a great Open Source citizen by contributing to major projects on GitHub that are used by thousands of companies around the world. Contributor to Amplify, ProgramEquity, a project under GitHub.

Experience Stack:

- Vue.js
- Vuex
- Auth0
- Sass
- Express.js
- GitHub Actions
- LoB API
- Civic Tech

MetaCall @ Google Summer of Code
Open Source Contributor (May 2022 - November 2022)

The Google Summer of Code, often abbreviated to GSoC, is an international annual program in which Google awards stipends to contributors who successfully complete a free and open-source software coding project during the summer. Contributor to MetaCall for GSoC'22.

Experience Stack:

- Automation using GitHub Actions.
- DevOps and containerization using Docker.
- Shared and remote caching.
- Command-line platforms: Bash, PowerShell, et cetera.
- Cmake.
- YAML.

Codementor
Freelance Mentor and Tutor (March 2022 - Present)

Paid freelance mentoring and tutoring students and professionals that pursue coding under their education or as part of work.

Allihoop
Software Developer (August 2021 - April 2022)

Software development, centred around back-end, web-based and mobile application development.

Experience Stack:

- A Strapi-based back-end used to serve REST and GraphQL APIs.
- A Webflow application for signing-in the users.
- HubSpot CRM to allow seamless coexistence of the developers with the marketing team.
- A Flutter application for the end-users.
- Socket.io for all messaging and related communications.
- Firebase for sending cross-platform mobile notifications.

GitHub Campus
Campus Expert (August 2021 - Present)

Technical community leadership in the campus.

Responsibilities:

- Conducting events and live-streams.
- Assisting community growth and promoting goodwill.
- Enabling experts, enthusiasts and learners in the tech-world to connect and collaborate productively.

Script Winter of Code
Project Administrator (October 2021 - March 2022)

Script Winter of Code is an open-source program envisioned by the Script Foundation. It aims to bring students into the world of open source development and see the power of unified problem-solving in real time. Project Administrator for Rema in SWoC 2021. Contributed issues, reviewed pull requests, and guided participants for their contributions.

GirlScript Winter of Contributing
Supervisor (August 2021 - January 2022)

A 3-month newly established initiative by GirlScript Foundation to be conducted during winters, that encourages individuals to share their knowledge and ideas to develop technical skills and gain valuable experience in the field of tech education.

Administered the contributions for JavaScript.

- Built the roadmap.
- Reviewed issues and PRs.
- Conducted weekly meetings and acknowledgement sessions.
- Organized documentation.
- Guided contributions in document, video, and audio formats.

ProtonAutoML
Software Developer (December 2020 - June 2021)

Experience Stack:

- Back-end API development with Express, NodeJS and MongoDB.
- Front-end SPA development with React, NodeJS and Material-UI.
- Machine learning and data science in Python and R using several libraries including Scikit-Learn, Matplotlib, Rattle, and RColorBrewer.

Tasks and Responsibilities undertaken:

- Created the back-end that calls Python code upon request to generate reports (comprising files and textual data).
- Implemented the report model and enabled report storage in the database as well as a designated directory inside the object storage service (S3/EFs/Others).
- Created the front-end as a React app using Material-UI and added business logic.
- Migrated data science and machine learning code from Jupyter notebooks into scripts to be executed in an automated fashion.
- Deployed the application onto an EC2 instance using the Nginx web server by proxying.
- Regular update, maintenance and deployment of codebase, with eventual additions of new features.
- Created a user-friendly CLI application for bulk-testing of report-generation by the development and data science teams.
- Built a batch-prediction API for end users, based on existing data science reports generated by the main app.

GirlScript Summer of Code
Mentor (March 2021 - June 2021)

GSSoC is a 3 month long open source programme during summers conducted by GirlScript Foundation, started in 2018, with an aim to help beginners get started with Open Source Development while encouraging diversity.

Mentor for REST-Fetch in GSSoC 2021.

- Contributed issues.
- Reviewed code and pull requests.
- Guided participants for their contributions.

PyData Guna Meetup
Club Administrator and Organizer (August 2020 - January 2022)

A community for developers, data scientists, and open source enthusiasts.

Conducted meetings and computer science workshops, including:

- F/OSS: What and Why?
- Docker and Microservices.
- Online IDEs.
- The REST API and GraphQL.
- Continuous Integration and Continuous Deployment.
- NextJS and MongoDB.
- Machine Learning using Pandas and Scikit-Learn.
- File-based Databases using SQLite 3.
- A Comprehensive Introduction to Front-end Web Development.
- A Teeny-Tiny Introduction to Cybersecurity and Cryptography.

Technology of Music Production, Berklee College of Music
Study Group Administrator (October 2020 - Present)

We discuss and explore various forms and colours of music and how it influences us to create art and express ourselves. I administer weekly meetings on Fridays and the community study group.

Spotify / YouTube
Music Producer, Singer-Songwriter (June 2015 - Present)

Verified artist with 8+ singles and 3+ cross-genre albums/EPs, from pop, Bollywood, classical to hip-hop and pop, with 530+ streams worldwide in more than 4 languages, including Hindi and English. 250+ subscribers on YouTube.

Kharagpur Winter of Code
Mentee (November 2020 - January 2021)

Contributed to open source projects and shared my experience via a blog post.

NJACK Winter of Code, IIT Patna
Mentee (October 2020 - January 2021)

Had a first-time experience of contributing to over a dozen open source projects.

Education

Jaypee University of Engineering and Technology, Guna
Computer Science, Bachelor of Technology (2019 - 2023)

Semester 6: 9.5 CGPA, 9.5 SGPA
Semester 5: 9.4 CGPA, 9.4 SGPA
Semester 4: 9.4 CGPA, 9.1 SGPA
Semester 3: 9.8 CGPA, 9.7 SGPA
Semester 2: 9.9 CGPA, 9.8 SGPA
Semester 1: 10 CGPA, 10 SGPA

Modern Academy, Lucknow
Intermediate, ISC (2017 - 2019)

92.25% in final board examinations.

Tiny Tots Senior Secondary School, Faizabad
Matriculation, CBSE (2015 - 2017)

10 CGPA in final board examinations.

Projects

GitHub Campus Experts India Website
The official website of GitHub Campus Experts India.

The website improves upon the idea of the global campus expert website but uses modern techniques and frameworks to improve performance and UX, whilst making the previously inefficient data endpoints paginated at compile-time.

Stack:

- React
- TypeScript
- Cheerio
- Day.js
- Markdown
- Bootstrap
- YAML

Jugaadu Rema
A simple certificate generation and management system.

The command-line version and rewritten fork of Rema which generates a static build, ready for mounting on any static server.

Stack:

- Command-Line
- JavaScript
- Image Manipulation
- Canvas API
- Bootstrap
- jQuery
- Vanilla

Rema
A powerful certificate generation and management system.

Full-fledged certificate generation and management for events, contests, and licences.

Stack:

- Image Manipulation
- Canvas API
- JavaScript
- Express
- Express
- MongoDB
- Bootstrap
- jQuery
- Vanilla

Svaasthy
A card-based health information storage provider.

For government and community-empowered health agencies.

Stack:

- Vanilla
- jQuery
- JSON Web Token
- MongoDB
- Express
- Docker

Web Server Suite
A collection of web server implementations.

Containerized and deployment-ready.

Stack:

- Docker
- Nginx
- Apache

HTTP Status Codes
A command-line + JavaScript utility to work with HTTP status codes.

Works both standalone and in conjunction with JavaScript.

Stack:

- JavaScript

REST API Playground
A pure client-side virtual REST API.

For learners to experiment with the concept of REST APIs.

Stack:

- Vanilla
- REST API

A New Way of looking at the Trigonometric Sign Conventions
Research work on an alternative derivation of the trigonometric sign convention.

Instead of the Cartesian co-ordinate system, using triangles and lines to derive the convention.

Stack:

- Mathematics
- LaTeX

Imaginator
An Express middleware that converts all image sources to data URIs in outgoing HTML documents.

Express middleware written in JavaScript.

Stack:

- NodeJS
- Express
- REST API

MiniPlot
A graphical application to plot equations of the form $y = f(x)$.

Desktop application made in Qt (Python).

Stack:

- Python
- Qt 5+
- Matplotlib

Text Decorator
A free web-based utility for decorating text, performing transformations, and more.

A pure frontend web application.

Stack:

- Vanilla
- jQuery
- Bootstrap

Achievements

Certificate of Completion, MetaCall @ Google Summer of Code, 2022
Completed a 6 months-long project under Google Summer of Code for MetaCall, an open-source polyglot runtime.

The contributions include:

- Migrating the Release Pipeline for the Linux Distributable.
- Migrating the Release Pipeline for the Core.
- Writing a Version-Updating Hook for the TypeScript/JavaScript Projects.
- Writing a Lint, Build, Test, and Release Workflow for the New FaaS.
- Writing the Linux Test Workflow for the Core.
- Migrating the Build and Push Pipeline for Gaur Image.
- Writing the Windows Test Workflow for the Core.

Certificate of Graduation, MLH Fellowship, 2022
Graduated from a 3 months-long fellowship under GitHub for Program Equity, contributing to Amplify.

Experience Stack:

- Vue.js
- Vuex
- Auth0
- Sass
- Express.js
- GitHub Actions
- LoB API
- Civic Tech

Letter of Recommendation, Allihoop, 2022
Started as an intern, worked a software developer for 9 months.

Developed the back-end APIs for the community application.

Stack:

- A Strapi-based back-end used to serve REST and GraphQL APIs.
- A Webflow application for signing-in the users.
- HubSpot CRM to allow seamless coexistence of the developers with the marketing team.
- A Flutter application for the end-users.
- Socket.io for all messaging and related communications.
- Firebase for sending cross-platform mobile notifications.

Letter of Recommendation, ProtonAutoML, 2021
Started as an intern, worked as the senior software developer for 6 months.

Developed the automated machine learning platform for Proton.

Stack:

- Amazon Web Services
- Material-UI
- React
- MongoDB
- Python
- Express
- NodeJS

CS50x 2020
Completed 9 problems sets and one final project, PROTATE.

Learnt and developed applications using C, Python, and Lua.

Stack:

- Game Development
- Lua
- C/C++
- Flask
- Python
- Data Structures
- Algorithms
- Command-Line

First Position, JUETHacks 2020
Developed the winner project, Neerog Jeevan.

An application that predicts one's chances of having COVID-19 based on their biological characteristics.

Stack:

- Numpy
- Pandas
- Scikit-Learn
- Flask
- REST API
- Bootstrap

First Position, Progate Week of Learning Webathon, 2020
First position in university.

Developed an application that encourages beginners to learn web development, similar to that of Progate itself.

Stack:

- Vanilla

Winner, Constantia, La Martiniere College, Lucknow, 2018
First position among participants from all schools in Lucknow.

Solved all programming challenges in the least amount of time.

Stack:

- Algorithm-Design
- Problem-Solving
- Command-Line

Certificate of Excellence, International English Olympiad, SOF, 2018
Zonal rank 85, international rank 1040.

Qualified all rounds of the competition.

Stack:

- Linguistics
- Spelling
- Vocabulary
- Grammar
- English

2nd Runner-Up, Iken Scientifica, 2011
Recognized for top performance in robotics and modelling.

Learnt and developed physics and electronics-based machines and robots.

Stack:

- Mechanical Automation
- Internet of Things
- Robotics
- Electronics
- Physics

Certifications

Full-Stack Web Development with React, Coursera, 2020
Finished the specialization.

Completed the following three courses:

- Front-End Web UI Frameworks and Tools: Bootstrap 4
- Front-End Web Development with React
- Server-side Development with NodeJS, Express and MongoDB

Programming with Google Go, Coursera, 2020
Finished the specialization.

Completed the following three courses:

- Getting Started with Go
- Functions, Methods, and Interfaces in Go
- Concurrency in Go

CS50x, Harvard University, 2020
Completed the Introduction to Computer Science course.

Finished nine problem sets and one final project.

Stack:

- C
- SQL
- Python
- Vanilla
- Flask

Param Siddharth

Developer and Musician

Personal Information

Website
paramsid.com

E-mail Address
me@paramsid.com

Phone Number
+91 93640 12121

WhatsApp
wa.me/+919364012121

LinkedIn
linkedin.com/in/paramsiddharth

Twitter
@ParamSiddharth

GitHub
github.com/paramsiddharth

Spotify
spotify.com/param

YouTube
youtube.com/ParamSiddharth

Skills

Backend
Express, TypeScript, Flask, PHP, REST API, GraphQL, WebSockets, Socket.io

Web Frontend
Vanilla, React, Angular, Bootstrap, Material-UI, WebAssembly, Wepack

Command-Line
C/C++, Python, JavaScript (NodeJS), Java, GoLang, Rust

Desktop
Qt (C++, PySide2), Tkinter, ElectronJS, React Native, SDL2

Database Systems
SQL (MySQL, PostgreSQL, SQLite 3), MongoDB, Neo4j, Redis, Mongoose, SQLAlchemy, Knex, Sequelize

Containerization and Cloud
Docker, Kubernetes, Heroku, Amazon Web Services, Google Cloud Platform, Microsoft Azure, DigitalOcean

Deployment, Automation and CI/CD
GitHub Actions, GitHub Pages, Travis CI, CircleCI, Netlify, PHP CPanel

UI/UX and Media
Bootstrap Studio, Justinmind, LaTeX, GIMP, Inkscape, LMMS, Spark AR, FireAlpaca, Bfxr

Data Science and Machine Learning
MATLAB, Numpy, Pandas, Matplotlib, Seaborn, Scikit-Learn, TensorFlow/Keras, PyTorch, OpenCV

Servers
Nginx, Apache, Lighttpd, Gunicorn, Kestrel

Mobile
Flutter, React Native, Java, Kotlin, PWA, Swift

Music Production
Songwriting, Composition, Sampling, Mixing, Mastering, Singing, Harmonium, Hindustani Classical, Bollywood, Desi, Pop, Hip-Hop

Languages

Bajjika
Native Tongue, Natural Proficiency, Kaithi and Tirhuta

Bhojpuri
Native Tongue, Natural Proficiency, Kaithi

Hindi/Urdu
Native Proficiency, Devanagari and Ruq'ah

English
Professional Proficiency, Roman

Punjabi
Beginner Proficiency, Gurmukhi and Shahmukhi

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