

# Arnav Jindal

Portfolio: [daggy.tech](http://daggy.tech)

Github: [github.com/daggy1234](https://github.com/daggy1234)

Linkedin: [linkedin.com/in/arnavjindal/](https://linkedin.com/in/arnavjindal/)

Email: [daggy@daggy.tech](mailto:daggy@daggy.tech)

Mobile: +91 0000000000

## EDUCATION

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- **Duke University** Durham, NC  
*Bachelor of Science - Computer Science and Economics* *August 2022 - June 2026*
- **Mallya Aditi International School** Bangalore, India  
*A Levels + AP* *July 2020 - June 2022*  
*Courses: Computer Science (A Level), Chemistry (A Level), Mathematics (A Level), Physics (A Level), AP Macro and Micro Economics, Calc BC (AP), Stats (AP), Business (AS Level), Language (AS Level)*

## SKILLS SUMMARY

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- **Languages:** Python, Rust, Typescript, JavaScript, SQL, Bash, deno
- **Libraries/Frameworks:** Next.js, Node.js, Hugo, React, Flask, FastApi, actix, express, postgresSQL, redis, mongo
- **Tools/Platforms:** Git, Jest, Webpack, Heroku, AWS, GCP, Docker, Kubernetes, cloudflare, vercel, grafana/prometheus
- **Soft Skills:** Leadership, Event Management, Writing, Public Speaking, Time Management

## EXPERIENCE

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- **Znotes** Remote  
*Student Developer (Intern)* *Mar 2020 - August 2021*
  - **Python Community Moderation tool:** Purpose build software for moderation, role assignments, community metrics and website integration
  - **Web Development:** Designed react components with material-ui and reactjs
- **IBM** Bangalore, India  
*Intern* *Mar 2021 - Apr 2022*
  - **Created AI powered counselling service:** Used IBM technology to create a mental health support chatbot for the NGO Emancipation to assist victims of human trafficking.
  - **Designed Website to deploy solution:** Website made using tailwind, html and vanilla js to embed counselling service. Performant website to load on weaker internet connections.
- **Gifting A Life (NPO)** remote  
*Web Developer* *April 2021 - June 2021*
  - **Revamp website for better user experience:** Made website better on variable screen sizes, embedded forms and improved styling.
  - **Utilised whatsapp APIs:** Used whatsapp tech to create buttons to start whatsapp chats with phone number database.
- **Vitamin Coin** remote  
*Developer* *Aug 2021 - Sep 2021*
  - **Created cross-platform Crypto Tipbot:** Helped enhance discord tipbot, created a twitter tipbot from scratch and used blockchain apis to move funds.

## PROJECTS

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- **Dagpi - full stack SaaS platform for image manipulation with monetization:** Full stack webapp featuring nextjs frontend and admin api backend in express with typescript. Features image manipulation microservice in python fastapi, and auth+metric microservices in actix rust. All networked together with docker and nginx and tracked with grafana, prometheus. Also features stripe and paypal payments. PostgreSQL and TimescaleDb databases with aws glacier automated backups. Integrates with stripe and paypal payment gateways for subscriptions.
- **Polaroid - image manipulation library in python:** Various rust libraries integrated to python with FFI. Features CI to build cross platform wheels using maturin. Core FFI done with pyo3 and features stubs and automatic documentation generation.
- **Dagbot - full-stack community engagement tool:** Built on discord's WS and HTTP apis, this tool responds to user interaction and uses several apis. Python engagement tool is connected to postgresSQL and frontend microservice by HTTP. Frontend microservice is express typescript with react frontend and mongodb database. Deployed with kubernetes
- **Esoteric Languages - niche programming languages:** Built 2 esoteric programming languages. Udymts features a rust based cli and compiler that turns udymts files into python to execute.. PokeType is a expression evaluation language built with rply and features lexical analysis, tokenization, compilation, interpretation and more.
- **Image Uploader - full stack app to serve images :** Built with a rust backend, it allows users to upload images via HTTP, Form API or through a UX made of html, css and js templates rendered by rust backend. It also features user authentication, image compression and compiled binaries for various target operating systems.

## LEADERSHIP EXPERIENCE

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- **Co-Founder of Computer Science Club** Bangalore, India  
*Taught python, javascript and various CS related topics to high schoolers.* Jul 2020 - Apr 2022
- **Chief Technology Officer TAS Magazine** Bangalore, India  
*Created website and edited podcast episodes for magazine that dealt with tech addiction..* Jul 2020 - Apr 2022
- **Social media Manager at Teachers Unite Association** Bangalore, India  
*Social media for TU (teachers demanding fair wages and better working conditions.)* Jul 2021 - Present
- **Thea Editor** Bangalore, India  
*Created website and uploaded and edited articles for Thea magazine* Oct 2022 - Apr 2022