

# Ansh Goyal

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## EDUCATION

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| <b>Birla Institute of Technology and Science, Pilani</b><br><i>B.E. Computer Science and Engineering, CGPA: 8.32</i> | 2021 - Present<br>Hyderabad, India |
| <b>Delhi Public School, Mathura Road</b><br><i>CBSE Class XII, 96.6%</i>   | 2015 - 2021<br>New Delhi, India    |

## EXPERIENCE

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| <b>Twilio</b><br><i>Software Engineering Intern</i>  | June 2024 – July 2024<br>Bangalore, India |
| <ul style="list-style-type: none"><li>Developed tools to perform Bulk Operations for <b>Enterprise customers</b> to improve the efficiency of operations team by over <b>90%</b> using <b>AWS Serverless Services</b>. Reduced <b>customer query TTR</b> by <b>60%</b>.</li><li>Created endpoints using <b>AWS Lambda</b>, <b>API Gateways</b> for <b>KYC Verification</b> for <b>150+ countries</b>. Reduced the API calls and improved response time by over <b>40%</b>. Wrote <b>unit tests</b> using <b>Jest</b>.</li><li>Resolved bugs in <b>Persona</b> integration using <b>Java</b> and <b>DropWizard</b>.</li></ul>   |   |
| <b>MetaBrainz Foundation</b><br><i>Software Engineer</i>   | Sept 2023 – May 2024<br>Barcelona, Spain  |
| <ul style="list-style-type: none"><li>Migrated a React Application to <b>Single Page Application</b> from Flask routing using <b>React Router</b>. Reduced page navigation time by <b>80%</b>. Integrated BrainzPlayer to support continuous music playback during navigation.</li><li>Architected a music discovery tool based on user recommendations and maintained user-facing website using <b>React</b>, <b>Flask</b>, <b>PostgreSQL</b> and <b>Spark</b>. Implemented <b>CRUD endpoints</b> and optimized API response times by over <b>20%</b>.</li><li>Led the development of a robust <b>Administration System</b> for BookBrainz and creating tools for integrating Spotify and Apple Music using <b>React</b>, <b>ExpressJS</b>, and <b>Docker</b> with four <b>GSoC students</b>.</li></ul> |   |
| <b>Google Summer of Code - MetaBrainz Foundation</b><br><i>Student Contributor</i>   | June 2022 – Sept 2022<br>Barcelona, Spain |
| <ul style="list-style-type: none"><li>Extended the infrastructure of <b>CritiqueBrainz</b> built with <b>Flask</b> to support book reviews for <b>BookBrainz</b> built with <b>React</b>, <b>Express</b> and <b>TypeScript</b>.</li><li>Implemented <b>OAuth</b> authentication and created <b>20+ CRUD API</b> endpoints.</li><li>Improved cache library <b>BrainzUtils</b>, optimized <b>PostgreSQL</b> queries to <b>reduce API latency</b> by over <b>30%</b></li><li>Created <b>50+ unit tests</b> using <b>Mocha</b>, <b>Chai</b> and <b>Pytest</b> to test user flow and individual components. Achieved overall <b>&gt;90% code coverage</b>.</li></ul>  |   |

## PROJECTS

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| <b>ObserveAI</b>   |
| <ul style="list-style-type: none"><li>Designed and developed an <b>OpenAI Observability Platform</b> using <b>NextJS</b>, <b>TailwindCSS</b>, <b>GoLang</b> and <b>TypeScript</b> to monitor <b>tokens</b> and <b>cost usage</b> and latency for requests.</li><li>Used <b>Cloudflare Workers</b> and <b>Queues</b> to proxy <b>OpenAI APIs</b>. Achieved sub-second latency impact.</li><li>Integrated <b>GraphQL</b> to fetch data with <b>Cockroach DB</b>, and added <b>OAuth Authentication</b> using <b>Clerk</b>.</li></ul> |
| <b>Talkrr</b>  |
| <ul style="list-style-type: none"><li><b>Designed and developed</b> a fully functional <b>chat application</b> using <b>NextJS</b>, <b>Tailwind CSS</b> and <b>TypeScript</b></li><li>Built backend using <b>Express</b>. Used <b>Socket.IO</b> for RTC, <b>Prisma</b> along with <b>MySQL</b> for storing information.</li><li>Added <b>Authentication</b> using <b>PassportJS</b> and <b>Redis</b> to cache sessions.</li></ul>  |

## TECHNICAL SKILLS

**Languages:** C++, Python, JavaScript, TypeScript, Go  
**Web Development:** React, NextJS, Express, Flask, HTML, CSS, PostgreSQL, MongoDB  
**Developer Tools:** Git, Docker, Webpack, Google Cloud Platform, Bash