PULKIT

New Delhi, India

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Education

Bachelor of Technology in Computer Science   **Gurugram, Haryana, India**
Dronacharya College of Engineering   *Oct. 2022 – Present*

Experience

Datawave Labs   **April 2024 – September 2024**
Full Stack Engineer Intern   *Remote, India*

- Developed and integrated the user sign-up and login system with Google OAuth, handling user authentication securely using JWT tokens.
- Implemented cloud account integration with AWS, Azure, and GCP, allowing users to connect and manage cloud services within the application.
- Automated the workflow of running Docker containers for cluster services, providing real-time status updates and improving system efficiency.
- Contributed to backend development using FastAPI and PostgreSQL, transitioning from raw SQL queries to SQLAlchemy ORM for better maintainability.
- Collaborated in daily standup meetings and effectively managed tasks with minimal supervision, ensuring timely delivery of features.

Projects

- **Deployit** | *MERN, Typescript, S3, Image Processing with JIMP* August 2024
  - Built a deployment platform enabling users to deploy repositories with a custom slug URL, featuring automated build and deployment processes.
  - Implemented deployment queuing using Redis for efficient task management and streamlined operations.
  - Enhanced performance and scalability by leveraging CDN for serving assets quickly and reliably.
- **Image Tweaker** | *MERN, Typescript, S3, Image Processing with JIMP* August 2024
  - Built an image optimization tool using Node.js, Express.js, and Docker, featuring real-time adjustments and S3 caching for enhanced performance.
  - Designed a user-friendly interface for diverse image manipulation needs, integrating JIMP for advanced processing capabilities.
- **Vidwave** | *MERN, Typescript, S3, Docker, Video.js (HLS)* August 2024
  - Developed a video streaming platform with upload, transcoding, and streaming capabilities using AWS S3.
  - Implemented automatic video transcoding and HLS streaming for optimal playback, leveraging Redis for efficient queue management.

Technical Skills

- **Languages**: TypeScript, JavaScript, Python, Java, C++, SQL
- **Backend APIs**: Node.js/Express.js, Hono (Serverless - Cloudflare), FastAPI
- **Frontend Technologies**: React, CSS Frameworks (Bootstrap, Tailwind CSS, Material-UI)
- **Development Tools**: JWT, Bcrypt, EsLint, Redux, CI/CD (GitHub Actions)
- **Testing**: Jest, Cypress
- **Databases and ORM**: Prisma, Postgres, MongoDB, SQL, Psycopg2, Redis
- **Platforms**: AWS (EC2, S3, CloudFront), Azure (VM), Docker
- **Soft Skills**: Problem Solving, Team Collaboration, Communication, Adaptability

Leadership & Achievements

- **ICPC Amritapuri 2023 Regionalist**: Qualified for regional round of the global programming competition.
- **Chairman & Web Lead**, Deviators Club: Student Led technical initiative. Hosted a lot of tech events
- **HackKRMU 3.0 AIML Track Prize Winner**: Recognized for innovative AI/ML application.
- **Gurugram University Ideathon Winner**: Secured first place for our AI driven travel solutions.