

Aditya Prakash Gupta

☎ +91-6387788385 | ✉ adityapgupta.ece18@iitbhu.ac.in | 🔗 LinkedIn | 🐙 GitHub | 📁 Portfolio

EDUCATION

Indian Institute of Technology (BHU), Varanasi

B.Tech in Electronics Engineering; CPI: 9.21/10.00

Varanasi, India

Sep 2018 – Jun 2023 (Expected)

WORK EXPERIENCE

Oracle Cloud Infrastructure

Bengaluru, India

Member Technical Staff — Object Storage Service

Jul 2022 – Present

- Performance Optimization and Stabilization: Enhanced performance of Integration End to End Tests of Object Storage, **reducing runtime by 40%** from **~150 to ~90 minutes**. Fixed **over 30** unstable and flaky Integration Object Storage Tests, ensuring their reliability.
- Backend Development: Mocked **Key Management Service (KMS) Client for Object Storage** to support operations like decryptKey, encryptKey during Region Builds. Added features of syncing an empty folder via **OCI CLI** for Object Storage along with successfully addressing customer-reported bugs and fixing flaky tests of the service in CLI, thus enhancing the Build's reliability.
- Production On Call Support: Demonstrated **strong operational expertise** by effectively handling high-severity issues during On-Call Shifts. Actively participated in peer code reviews. Involved in Frontend and Touchless Region Build On Calls and Deployments. Made significant contributions to enhancing Object Storage Documentation and Runbooks, making it more user-friendly
- Testing: Implemented various Integration and Unit Tests for **OCI Java SDK, CLI** for Object Storage service
- Agile Methodologies: Collaborated within Agile development teams, actively participating in Sprint Planning, Stand-up and Scrum meetings, enabling faster feedback loops and timely project delivery.
- Exposure: Java, Python, Microservices, Terraform, OOPs, Basics of Kubernetes, Docker, CI/CD Pipeline, DevOps

Oracle Cloud Infrastructure

Bengaluru, India (Remote)

Server Technology Intern — Visualisation Service

May 2021 – July 2021

- Wrote an optimized **Java** script to generate **mock data** for an OCI Tenancy in a suitable data format for the UI
- Built a **REST API** in **Dropwizard** to create ,read ,update ,delete (**CRUD** operations) the generated mock data
- Created a Responsive UI to visualize relationships between various OCI Resources and Compartments in a tenancy
- Wrote End to End Tests and analysed the Application Performance along with dockerizing it
- Exposure: Java, Dropwizard, JavaScript, ReactJS, D3.js, Microservices, RESTful API, Docker, Swagger

PROJECTS (DURING ACADEMICS)

Entertainment Info Website

Oct 2021 - Nov 2021

- Built an **Angular** app displaying info of various Movie/TV Shows, calling **REST** api exposed by **ExpressJS**
- **Express/NodeJS** backend fetches data from the **OMDB** (Open Movie Database) API parsing different queries
- Implemented features like **searching** movies/shows and **hosted** the website with the help of **AWS EC2 instance**

Autonomous Path Mapping Robot

Feb 2020 - Mar 2020

- Designed an Autonomous Robot travelling across the maze as per given set of rules using **overhead camera** feed
- Applied Image Processing techniques like Contour Detection and Colour Segmentation to make a **Graph**
- Implemented **BFS algorithm** on the maze to find **shortest path** between two particular cells of the maze

Hand Written Captcha Solver

Nov 2020 - Dec 2020

- Trained **CNN Model** using **0.8** million characters from **47** unbalanced classes as per **EMNIST byMerge** dataset
- Implemented optimization techniques like **Adam** optimizer, dropouts and **Regularization** methods
- Successfully implemented **Real-Time Handwritten Captcha Solver**, to achieve **~92% accuracy** on test dataset

Deep Learning Based Udacity Self-Driving Car Simulation

Aug 2021 - Sept 2021

- Trained a **CNN** model using the dataset generated from Udacity Self Driving Car Simulator
- Implemented **PID mechanism** to maintain **constant speed** and **central alignment** of the car
- Successfully implemented and tested the model to drive the car over an **unseen track** with **~98%** accuracy

SKILLS

Programming: C, C++, Java, Python

Technologies: Git, Grafana, Terraform, CI/CD Pipeline, OCI Cloud Services, HTML/CSS/JavaScript, OpenCV

Interests: Data Structures, Algorithms, Problem-Solving, Backend Development, Object-Oriented Programming, Operating Systems, Database Management Systems, Computer Networks, Low Level System Design, Image Processing

Tools: Jira, Confluence, VS Code, IntelliJ, Pycharm, Jupyter Notebook, Notion, Generative AI like ChatGPT, Bard

AWARDS AND ACHIEVEMENTS

Oracle Summer'21 Server Technology Internship: Received a **PPO** for excellent performance.

Inspire Scholarship: Eligible for securing **97%** in Class XII Board Examinations and being in **top 1 percentile**.

Laptop from State Government: For outstanding performance in Class X Board Examinations and securing **97.4%**.

Pixelate- Image Processing Competition: Secured **2nd position** in 2019, 2020 editions among 100+ participants.

Funkit'19, Digisim'20- Digital Electronics Competition: Secured **3rd position** among 100+ participants

MISCELLANEOUS AND EXTRA-CURRICULARS

- Certifications: OCI 2022 Foundations Associate (Oracle), Building RESTful Web Services with Dropwizard (LinkedIn Learning), Neural Networks and Deep Learning (DeepLearning.AI), Java, Problem Solving Basic and Intermediate (Hackerrank)
- Sports Programming:
 - **Google Kickstart:** Secured **Global Rank 1260** in Round G 2019 and **1919** in Round C 2021 among 15000+ participants
 - Maximum Rating: **1882**- Codechef(adipro167), **1607**- Leetcode, **1559**- Hackerearth and **1506**- Codeforces (adipro1167)
- Oracle Volunteer in **Cyber Crime Awareness Programme**, awaring middle school students about cyber crime.
- **Special Mention** from **IIT BHU, Varanasi** for significant contributions to the Students Gymkhana Organisational Activities:
 - **Content and Creative Head** | *Udyam'21- Technical Fest of Electronics Engineering Society*
 - **Web Development Lead** | *Aero-Modelling Club, IIT (BHU) Varanasi*
 - **Event Executive** | *D'aero Glisseur, Technex'20- Techno-management Fest of IIT (BHU) Varanasi*
- Progressed to **Round 2** of **Boeing IIT National Aeromodelling Competition 2019-20**
- Awarded a Certificate of **Excellence** for outstanding performance in **Quollab's Virtual Product Management Experience**