Divya Prakash Mittal

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EXPERIENCE

- **Azure, Microsoft** — London, United Kingdom
  Software Development Engineer — *Jul 2022 - Present*
  - **Voicemail in Azure**: Actively involved in a team developing a voicemail system in Azure having low-latency and high-availability; for telecom leaders like AT&T.
  - **Enhanced Solution Scalability**: Implemented prometheus sharding to efficiently manage metrics from multiple containers in the AKS cluster, enabling large-scale solutions to support over millions of subscribers.
  - **Optimized Internal Dependencies Management**: Played a pivotal role in pioneering an automation tool which streamlines internal dependency updates, **saving approx. 40 developer-days quarterly.**
  - **Leadership & Collaboration**: Directed discussions to clarify and formalize inter-team roles & responsibilities, boosting collaboration and streamlining workflow.
  - **Tech Stack**: Python, Bash, Azure, Kubernetes, Helm, Terraform

- **Asset Management, JPMorgan & Chase** — Bangalore, India
  Software Development Engineer — *Aug 2021 - Jun 2022*
  Software Development Engineer (Intern) — *Jan 2021 - Jul 2021*
  - **Instrument & Price Reference Management**: Working extensively with Portfolio Managers for Instrument & Price Reference Management Build out which helps the firm to analyse the assets effectively.
  - **Volcker Regulation Build out**: Delivered an automated solution compliant to Volcker regulations which fetches, cleans, stores, analyzes data for every instrument of each asset class in JPMC
  - **Improved Efficiency of Data flow**: Efficated the data flow within the project by 15% using parallel processing during API calls for every instrument.
  - **Tech Stack**: Java, Spring-Boot, OracleDB

- **JPMorgan & Chase** — Bangalore, India
  Software Development Engineer (Intern) — *Jun 2020 - Jul 2020*
  - **Built Platform to improve social-emotional learning in school students**: Created project for non-profit organisations on behalf of the firm as part of interns for social good programme.
  - **Web & Mobile Application to create Interactive Learning Games/Quizzes**: Built on Flask with JavaScript which let teachers create interactive lessons/quizzes to improve social-emotional skills in students.

- **Computer Science and Engineering Department - TIET** — Patiala, India
  Student Software Developer — *Aug 2018 - Jan 2019*
  - **Digitalize the entire evaluation process of the Capstone Project by designing a CMS**: Developed and **deployed** a production-ready web app with many features like team registration, marks assignment, panel creation & evaluation. The Web Application is currently being used by the university with around **1000+ users/semester**

- **Google Code-In 2015 & 2016 - MetaBrainz Foundation** — Remote
  Student Software Developer — *Dec 2015 - Feb 2017*
  - **Added Guess Case for Turkish Titles in MusicBrainz**: Added feature to automate the capitalization and casing for entities in Turkish according to the language specific guidelines.
  - **Refactoring, Testing & Documentation**: Enhanced code quality by adding unit tests, fixing **Perl & Flask** bugs, refactoring, and updating documentation, including the organization's wiki with how-to guides.

PROJECTS

- **SentiEnt - Product Performance Analyzer (Python, Flask, PostgreSQL, HTML/CSS, Bootstrap, GraphQL)**: Web application that allows a user to give insight into a product in the market by calculating **sentimental score** about the product using the **Naive Bayes algorithm**. Obtained comments data from e-commerce websites like Amazon and Flipkart by **web scraping** using the **bs4** library
- **Smart Learning System (Ruby, Ruby on Rails, EEG Sensor, HTML/CSS)**: A system developed to extract **EEG signals** to analyze a person's attention while studying and analyze patterns of attentiveness and suggest ed-tech content creators areas of improvement based upon the analysis.

POSITION OF RESPONSIBILITY

- **General Secretary at Creative Computing Society**: As the General Secretary of the **biggest and oldest** computing **society** of the college, administered a team of over **150+ members**. Organized events such as **Hackathons, Workshops**, and fun coding **competitions** in collaboration with **Codechef, GDG Jalandhar, and Coding Ninjas**

SKILLS SUMMARY

Languages: Python, Bash, C/C++, Java	**Frameworks**: Flask, Django, Spring-Boot
Cloud: Azure, Kubernetes, Helm, Terraform	**Frontend**: HTML, CSS, Bootstrap
Databases: MySQL, SQLite, OracleDB, Cassandra	**Tools**: Git, Linux, JUnit, Mockito

EDUCATION

- **Thapar Institute of Engineering and Technology** — Patiala, India
  Bachelor of Engineering in Electronics and Communication; CGPA: 7.50/10 — *Aug 2017 - Jul 2021*
  Courses: *Operating Systems, Data Structures, Object-Oriented Programming*