Abhishek Pratap Singh

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Education

Examination	University	Institute	Year	CPI/%
Post Graduation (Computer Science & Engg.)	IIT Bombay	IIT Bombay	2017	8.6
Graduation (Computer Science & Engg.)	G.B.T.U.	MMMEC Gorakhpur	2013	68.9
Intermediate	CBSE	SSMV	2009	79.6
Matriculation	CBSE	JNV Shahjahanpur	2007	79.2

Work Experience 5+ years

MakeMyTrip, Banglore *(Designation: Senior Software Engineer 2 [Golang])*   *[Sept'22 - Present]*

- Role-Responsibilities:
  - Product requirement collection and analysis. Implementation of product-features in Golang.
  - Preparation of API contracts between downstream API-providers and API-consumers UI clients.
  - Management of configs. Production issue root cause analysis and fixes.
- Developed integration-level test automation framework. Using Golang, Bash, Kafka, Jenkin-Groovy script.
- Implemented pixel-data-logging of user activities on website for Data Science consumption through kafka.

Career Break Personal Goal Pursuit   *[Oct'21 - Aug 22]*

Druva Inc, Pune *(Designation: Staff Software Engineer[Golang])*   *[Sept'20 - Sep'21]*

- Implemented Golang REST APIs for backing up the user data using AWS S3 and Dynamo DB. Contributed in designing and implementing framework for E2E testing and component testing for REST APIs. **(Golang)**.

Embibe (Edtech), Bengaluru *(Designation: Software Development Engineer 1)*   *[Nov'19 - June'20]*

- Designed and implemented OCR web micro-service for recognizing hand-writing and text in images, automated image preprocessing for better results.
- Contributed in restful APIs for converting Exam questions in doc format to json objects in database.
- Worked on redesigning and implementation of automated test question paper generation.

Huawei Technologies India Pvt. Ltd, Bangalore *(Designation: Technical Project Leader)*   *[July'17 - Nov'19]*

Distributed Network Attached Storage (NAS).

  - Optimizations for large IO operations on distributed file system.
  - Worked on protocol for managing **distributed cache** to accelerate distributed NAS storage.
  - Contributed in development of distributed Read Ahead Cache managment.

IoT: Internet of Things Network Stacks (lwip, uip).

  - Linux support for RPL(Routing Protocol for Low Power and Lossy Network).
  - RFCs implementation for lwip (light weight ip stack). Implementation of IOCTLs. Bug-fixes and modifications in existing open-source code according to requirements.
  - Unit Testing and functional testing using Python and Scappy, using Castellia framework.
  - Designed and implemented mp4 video preview maker in c++ from scratch.

Academic Projects

- **Authentication using Finger Movement on Android phone Touch Screen (Machine Learning).**
  - Used Support Vector Machine (SVM) for classification (recognition of authorized user).
- **Simulation Modeling of a Web server** *(Guide: Prof. Varsha Apte)*   *(Mar'15 - Apr'15)*

Technical Skills

- **Programming Languages**: C (2.5 year exp), C++, Python (1.5 year exp), GoLang (2.5+ year exp)
- **Technologies**: Flask, Redis, Docker, ns3, Bash, Awk, Sed, Makefile, Git, Loadable Kerenel Modules
- **Databases**: Postgresql, Dynamo DB AWS, MongoDB, Redash Query Platform