

PUNYASLOK DUTTA

+91-7001841303 ◇ punyaslokdua@gmail.com

EDUCATION

Bachelor of Technology (Computer Science and Engineering)
MNNIT Prayagraj, CGPA: 7.27/10.00

August, 2014 - July, 2018

CBSE, Class XII
DAV Model School, Durgapur, W.B 96.6%

April, 2013 - March, 2014

WORK EXPERIENCE

Hubble Money- Rewards & Payments App , Bangalore: Software Developer (Backend)

May, 2022 - Present

- Worked as part of a small team of 3 backend developer that looked after solving time-critical customer problems, building, testing, launching, validating and optimising product features where the customer base grew from 10k to 500K+ over 6 months.
- Built RestFul APIs for the analytics team to increase reporting speed for 500k+ customers along with sending user analytics events to Google Analytics 4, Facebook Business Manager and other CLM tools.
- Worked with product managers & front end engineers to build secure & scalable backend APIs for a product with \$5 million AUM and 50K DAU. (Flexibility in SIP investments , integration of ecommerce aggregator APIs and Razopay payments APIs)
- Hands-on experience with EC2, ECS, API gateway, Lambda, CloudWatch, DynamoDb, building infrastructure on AWS using CDK and managing Docker deployment pipelines using Github Actions.

Technologies used: Nodejs, Java, React, SpringBoot, Postgres, MySQL, JDBC, Hibernate, AWS, Docker, Apache Kafka, AWS cdk

Freelance Developer/Independent consultant: Sworkit- Workouts & Exercise App

July, 2021 - Feb, 2022

- Developed a PoC for realtime pose estimation/detection of the yoga poses based on 17 keypoint-PoseNet Model and KNN classifier Model for rewarding in-app game points to users.
- Responsible for design and development of various components such as tab bars, image picker, date picker, push notifications, sign-in/out features, profile management and navigation based on provided wireframes for the android App.
- Integrated Redux state management system for the React Native application, resulting in improved app performance and better user experience.

Technologies used: TensorFlow Lite, Python, React, React Native, Postgres, Docker

Papyrus Podcasts, New Delhi: Product Developer/Manager

October, 2019 - June, 2021

- Development of MVP of podcasting app using React Native, Redux, Firebase, Algolia on Android based on wireframes.
- Selecting platforms , frameworks and libraries based on maintainability, cost, dependencies, security and usage limits for both Android and Web.
- Development of web based Admin console, Cloud Firestore(No-SQL) modelling and building serverless RESTful APIs.
- Integration of WebRTC based Agora SDK for interactive video calling feature on Android.

Technologies used: React Native, React , Java(Android/Kotlin), Node.js, Firebase, GCP, Algolia, Cloud Firestore(NoSQL), Jest, GitLab, Agora SDK

Adobe, Noida: Member of Technical Staff

July, 2018 - August, 2019

- Maintenance of packager and runtime components of **Adobe Hyperdrive Installer** for Windows and macOS devices.
- Optimising installation failures, crash rates of various Adobe products by analysing events queried from ETS server.
- Migration from .msi / .zip packaging to Microsoft's new MSIX installer for all the Adobe wide products on Windows.
- Automated parts of build pipeline using **Jenkins** and **JFrog Artifactory** which reduced build cycle from 24 hrs to 10 hrs.

*Received **Adobe NCG Best Project Award (C++)** which was given to the team which performed exceptionally in the New Campus Graduates bootcamp project.*

Technologies used: C++, Objective C++, Java (Spring), Apache Maven build tool, Jenkins, MySQL , Perforce, Git, Xcode

INTERNSHIP

Adobe (Product Intern) : Textual Semantic Equivalence Feature-set

May, 2017 - July, 2017

- Worked as part of AEM team to develop a select-deselect feature for automatic referencing of texts on the DITA editor.
- Implemented pytorch version of **Skip-gram Model**, **WMD**, **Skip-Thought vectors** on technical docs dataset.
- Successfully demonstrated a PoC by integrating the feature in AEM's existing DITA editor with a F1-score of 0.81.

*Received **acclaim from Director**, (**Adobe Print, Scan , TechComm Business**) for integrating the feature for product testing in 2 months and was offered a pre-placement offer.*

Technologies used: Pytorch , Javascript, Keras, Python(Gensim,spaCy, numpy, t-SNE, pandas)

QUALIFYING EXAMS

Joint Entrance Examinations

May, 2014

AIR: 4487 (Part of top 0.4% in JEE Advanced 2014)

AIR: 2718 (Part of top 0.3% in JEE Mains 2014)

SKILLS

Languages & Frameworks: Java, Javascript, Node.js, C++, Spring

DS/Algo practice repo: <https://github.com/punyaslokdua/DS-Algo-Practice>

Tools & Technologies: PyTorch, Keras, GCP , AWS(EC2, S3), React, React-native, Firebase, Postman

Data: Cloud Firestore(NO-SQL), MySQL, PostgreSQL, Elasticsearch, Redis, Tableau

PROJECTS

GenX Mutual - React & Springboot project

2022

- GenX Mutual is a fictitious insurance company which serves as an application to demonstrate microservices and domain-driven design. The company provides several digital services to its customers and its employees
- Springboot based Customer and Policy management APIs and Node.js based Risk management APIs to handle concurrent requests.
- React based front-end for customer, policy and risk management services

Technologies used: Springboot, React, MySQL, Apache Kafka, Node.js, Java

StyleGan Facial Features Editor

2022

- Aim of the project was to explore & generate the latent space of StyleGAN model by moving in the direction of desired text based facial feature vector.
- Implemented Facial Feature Editor using StyleGAN network and Latent mapper, trained to manipulate latent vectors according to the predefined features(moustache, hair color, hairstyle, beard, gender) on multi-modal CLIP network.
- Data augmentation/alignment/cropping using face-api.js on FFHQ + CelebHQ dataset.

Technologies used: Pytorch , Google Colab, GAN Lab, PyGan, Streamlit.