Arpit Parwal

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Website: http://appielife.in

EDUCATION

Master of Science in Computer Science

June 2019 — May 2021

Viterbi School of Engineering, University of Southern California

GPA: 3.4/4.0

Relevant Coursework: (Algorithms, Artificial Intelligence, Natural Language Processing, Machine Learning, Augmented & Virtual Reality)

Bachelor of Technology in Computer Science

July 2013 — June 2017

SRM Institute of Science and Technology

GPA: 9.03/10

Relevant Coursework: (Data Structures, Web Technologies, User Experience, Software Testing, OOPS, Microprocessor, Engineering Math)

WORK EXPERIENCE

Software Developer Engineer Intern, Amazon.com Inc., Seattle, USA

May 2020 — Aug 2020

- Created a monitoring tool for scheduled content flow inside Amazon enterprise software stack.
- Integrated the tool in existing system that averages 72K hits/sec and secured low latency and high availability.
- Engineered entire architecture from metrics collection to retrieval using Native AWS tool.
- Deployed the entire infrastructure in corporate environment to be used internally by teams across Amazon.

Full Stack Developer, Akeo Software Solutions, India

April 2018 — May 2019

- Produced 3+ Proof of Concepts working as a full stack developer (MEAN Stack)
- Managed and organized several ICOs developed with backend in Blockchain, Ethereum & Solidity.
- Devised a unique algorithm for generating cryptographic wallets for securing user information.
- Collaborated to secure seed funding of \$100K for an automotive project by formulating technical & analytical proposal.
- Conducted orientation and organized recruitment event for 2K+ participants as part of Talent Acquisition team.
- Lead a team of three while working on orientation and training module under 'Freshers mentorship program'

Mobile Application Developer, Akeo Software Solutions, India

June 2017 — March 2018

- Developed 5+ android and iOS mobile applications and published on respective stores.
- Implemented maps, push notifications, auto OTP reader, advance searches in real time
- Formulated device offline mode enabling a user to use app without connecting to internet.
- Supervised team of five, for making search algorithm accurate and robust

PUBLICATION

Paper: Deduplication in Cloud Storage using Hashing Technique for Encrypted Data

March 2018

Journal: ARPN Journal of Engineering and Applied Sciences

Link (http://www.arpnjournals.org/jeas/research_papers/rp_2018/jeas_0318_6881.pdf)

PROJECTS

The Exam Artist Link(https://theexamartist.art.blog/)

January 2020-Present

- Synergized with peers to develop a Virtual Reality game in Unity, exhibited at USC Games Expo 2020
- Oversaw end to end development and implementation of business logic using agile methodologies.

Real time flight review using Mobile App

October 2019 - Present

- Trusted to develop end to end an entire production grade mobile application to review flights in real-time.
- Pioneered using **RESTful API architecture** style using NODE, React, MySOL along with variety of tech stack.

Web link Scrapper and filter Link(http://52.37.213.157/)

April 2020

- Formulated a python web scrapper and filter system to improve data quality to be used for analysis.
- Boosted the usability by deploying the system using **Django web framework** on an Apache server.

Question Generation from text Link(https://github.com/appielife/CSCI544 NLP FinalProject)

December 2019

- Explored Seq2seq or Encoder decoder model to generate competitive question stack from a given paragraph.
- Quantified our model to predict smarter and tougher questions than contemporary NLP models.

AI Agent for playing Halma (Chinese Checkers) Link(https://github.com/appielife/AI-Agent---Halma)

November 2019

• Probed the use of **Min Max algorithm to develop an AI agent** to play a form of Chinese checkers called Halma.

• Proved the efficiency and adaptability of the agent by playing against 750 peer agents and ranked in top 50.

Inventory Management Solution *Link(https://drive.google.com/open?id=1t33Ics uEvX S0Bri119yrhrHgvk-Vrx)*

May 2019

- Optimized a primitive methodology of inventory management by developing MEAN stack-based web solution
- Generated algorithm in order to reconcile 5K of existing entries in digital format for data analytics.

Loan Management Solution Link(http://grpfinance.in/grpfin/)

March 2017

- Orchestrated software architecture from scratch for a PHP based web application for loan management
- Programmed CMS, loan entry, reminder, receipt generation, collection status, account reports modules

Informational website(s) *Link(http://balajihospitaljajpur.com/, http://gopalamjewels.in/)*

March 2016

Spearheaded entire process from development to deployment of informational websites as a freelance project.

CO-CURRICULAR ACTIVITIES

Disaster Recovery Specialist, American Red Cross LA Region

May 2020 — Present

- Responded and steadfast on-call to home disasters (e.g. fires, floods, etc.) to provide relief and recovery services.
- Providing humanitarian and financial support to emergency cases and disaster affected people.

Student Worker, USC Libraries

September 2019 — Present

- Facilitated in preparation of numerous student outreach and informative libraries event.
- Perform general office duties and automated several process using Office tools to eradicate human error.
- Determined a systematic approach to event planning to help curb wastage of consumables and increase productivity.

Student Ambassador, USC Viterbi

February 2020 — Present

- Directed incoming and prospective students to informative sessions and live Q&As via chat.
- Composed several contents in form of blogs and handouts to address general queries and guidelines.

Course Mentor, USC Ming Hsieh Institute

August 2019 — December 2019

- Worked under Professor Shahin Nazarian (Ph.D.) for the course EE 577B: VLSI System Design.
- Responsible for the development of course-related materials and student portal.
- Built an interactive course portal along with documentation using WordPress.

TECHNICAL SKILLS

- Front End: Angular, React, JavaScript, HTML & CSS, XML, WordPress, Magento
- Back End: Node, Express, PHP, Django, Net, C, C++, Java, Python, AWS Lambda, MATLAB
- Database: SQL Server, MySQL, MongoDB, CouchDB, DynamoDB, AWS Athena, AWS Glue
- Mobile: React Native, Ionic, Cordova, Android Studio, XCode, Firebase,
- Blockchain: Solidity, Hyperledger Fabric, Composer, Metamask, IBM World Wire,
- DevOps: Jenkins, Docker, Swagger, Apache, phpMyAdmin, XAMPP, PuTTY, Amazon Web Services, AWS CloudFormation
- Machine Learning: PyTorch, Kaggle Datasets, TensorFlow, scikit-learn, NLTK, TensorBoard, Keras
- Data Visualization Tools: Google Data Studio, Firebase Analytics, SQLyog, MS Excel
- Game, Graphics & Animations: Unity, Adobe Illustrator, Photoshop CS5, Lightroom, Premiere Pro
- Other: MS Office, G Suite, Tally, Google Cloud Platform, Amazon Web Services, Postman, Data Studio