Pratyay Amrit

Analyst, Deloitte USI
Engineer | Science & Technology Enthusiast

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About Me

Software Developer and Linux enthusiast, with professional experience in web-development, server administration and database management. Interested in machine learning, natural computing and the philosophy of AI. Appreciates the beauty of science and mathematics.

Work Experience

Analyst
Deloitte USI | Mumbai-IN
Current, from Aug 2018   (FT)

> Full-Stack Java Developer in a public sector project.
> Took the initiative of automating multiple repetitive processes within the project, effectively reducing the manual effort by about 10-15h per week.
> Provided solutions/workarounds to high impact issues which resulted in monetary benefits for the project and the client.
> Had the opportunity to lead newer members coming into the project through multiple action items, and towards a better functional and technical understanding of various modules within the project.

</> Java, IBM Websphere, ILOG Rule (Rule Designer), Oracle SQL, JavaScript, Python

Freelance Web Developer
Self Employed
Jan 2018 – Jun 2018   (Freelance)

> Developing solutions for an upcoming startup
> Responsible for end to end development process and meeting client's expectations.

</> PHP, CodeIgniter, HTML, CSS, JavaScript, AngularJS, Git, Linux

Developer
Placement Office, MIT | Manipal-IN
Aug 2016 – Sep 2017   (PT)

> Web based portal on the college intranet to provide placement related functionalities, such as registering for companies, building profile etc.

</> PHP, HTML, CSS, MySQL, JavaScript, Linux

Web Development Intern
Rudyard.me | WFH
May 2017 – Jun 2017   (Internsip)

Building a JavaScript based Transcription Editor Module.
⊙ https://github.com/arkeyve/transcription-editor

</> JavaScript, HTML, CSS, PHP, Python, Git, SoX

Team Lead, SysAdmin/Web Dev
College Fests, MIT | Manipal-IN
May 2016 – Mar 2017   (PT)

> Managing and maintaining database for national level annual fests. (technical fest, TechTatva'16, and cultural fest, Revels'17)
> Developing web based portals for other organizing members of the fest to interact with the central database.
> Responsible for recruiting, training and leading a team of 'organizers'.
> Developing the main website for Revels'17.
⊙ https://github.com/arkeyve/revels17

</> JavaScript, HTML, CSS, Linux, InkScape, Git, PHP, MySQL

Technical Skills

Languages	Python, C/C++, Java, C# Octave/MATLAB
Web Dev	HTML, JavaScript, CSS, PHP, JSP
Frameworks	CodeIgnitor, Numpy, Pandas, Flask, Angular, OpenCV
Database	Oracle Database, MySQL
Dev Tools	Atom, Vim, Jupyter, Eclipse, IBM Rule Designer, SVN, git
Design Tools	GIMP, InkScape
Middleware	Apache, IBM Websphere (WAS)
OS	Arch Linux, Windows, Ubuntu
Others	Arduino, RFID, Sensor Technology

Education

2014 – 2018	**Bachelor of Technology** CGPA: 7.15 Computer & Comm. Engineering Manipal Institute of Technology
2012 – 2014	**12th Boards** Aggregate: 90.2% CBSE Delhi Public School, Gurgaon
2010 – 2012	**10th Boards** CGPA: 9.4 CBSE Delhi Public School, Maruti Kunj

PROJECTS

Firefly III Migrate
Aug 2019

An application to import data from one instance of firefly-iii to another using APIs.

github.com/arkeyve/firefly_iii_migrate
</> Python, Flask, OAuth2, APIs

Minesweeper Bot
Mar 2019 – Apr 2019

Recreating minesweeper and creating a bot for it.

> Created basic game
github.com/arkeyve/minesweeper
> Created greedy bot to play the game
github.com/arkeyve/minesweeper_ai

</> HTML, JavaScript, CSS

Snake AI
Feb 2019

Recreating the classic snake game and teaching the computer to play it using different methods.

> Created basic game
github.com/arkeyve/snake_game
> Created greedy bot to play the game
github.com/arkeyve/greedy_snake_ai

</> HTML5, JavaScript, CSS

Analysis of Anomaly Based Intrusion Detection Systems
Jan 2018 – Apr 2018

An attempt to rank different machine learning techniques on the basis of their accuracy and time of execution for use in Intrusion Detection Systems.

github.com/Arkeyve/anomaly_based_ids
</> Python, Pandas, NumPy

BellBots
Sep 2017 – Feb 2018

Built a small bot to follow the owner using a self-developed indoor navigation system to overcome the challenges around the same in the standard GPS + Bluetooth/Ultrasound methods when used indoors, or in multi-bot environments.

Proof of concept and miniature prototype developed and presented as a business plan, which was awarded a Special Prize in the Inter-University B-Plan Competition, Provenance '18.

</> Arduino, RFID, Bluetooth, Self-Baked Indoor Positioning and Navigation System.

CERTIFICATIONS

Sep 2020 **DeepLearning.AI TensorFlow Developer**
Coursera
Credential ID: 72BAT59HBJ8W

May 2020 **Deep Learning Specialization**
Coursera
Credential ID: H5UHNL6WU6FU

Dec 2019 **Oracle Certified Associate, Java SE 8 Programmer**
Oracle
Credential ID: 269982030OCAJSE8

Jan 2019 **Machine Learning**
Coursera
Credential ID: VJWFES2KXDVV

May 2016 **Cloud fundamentals**
Microsoft Technology Associate
Credential ID: F738-0051

Oct 2012 **Object Oriented Programming in C++**
NIIT Limited
Credential ID: 12EEZZZZZ2423

Oct 2012 **Programming in C**
NIIT Limited
Credential ID: 12EEZZZZZ2422