

SIMRAN D. MAKHIJA

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RESEARCH WORK AND EXPERIENCE

Software engineer, Amadeus Software Labs

📅 July 2019-Present

- Team involved in development of security components-along with ASM(Amadeus Security Management) System which is based on RBAC approach. Built using C++,Python, Angular and SQL
- Worked on REST APIs to freeze/unfreeze users, to avoid them from being removed due to inactivity.
- Worked on a daemon for providing security information access to other Amadeus applications in form of sqlite caches.
- Worked on scheduled and on-demand batch jobs for generating billing reports, by optimizing and adding stability to the current process.
- Built a functioning prototype for a new product- EcoFriendly Traveler - Using Django, SQLite, Celery, Redis
- Actively involved in Product Implementation support.
- Awarded High Flyer for the last quarter of 2020.

Intern at Uncanny Vision

📅 April-June,2019

- Detection of person-head using a single YOLO model by generating anchors specific to the task
- Detection of people in a crowded scenario, by altering the grid formation done by YOLO on the Darknet framework.

AstroInformatics: Application of Machine Learning in Astronomy

📅 February2018- June 2019

- **Exoplanet Exploration using GANs:** Semi-supervised approach of classification using GANs to separate out the classes of planets using a conservative set of features. Published in ASCOM 2019.
- **Star Quasar Separation:** Using photometric data only, we presented an approach to separate out these sources using tree-based classifiers and GANs. Published in ASCOM 2019.

PROJECTS

Task manager

📅 February 2020-April 2020

- Developing an app which let's one add tasks, subtasks, priorities, deadlines and records the completion.
- Built using React, Golang and MongoDB

Chef it up

📅 Oct 2020-Nov 2020

- Developing an app to create recipe, subrecipes and calculate costs of recipe asynchronously based on ingredients. Suggests dishes on keying in ingredients available.
- Built using Django, Celery, Redis, SQLite

EDUCATION

Course	Institution	Aggregate
B.E. (ISE)	PESIT-BSC	8.01
PUC (12th)	Christ Junior College	93.83 Graduated in 2015
ICSE (10th)	Baldwin Girls' High School	93.67 Graduated in 2013

SKILLS

Computer Languages C,C++, Java, Python, Golang, SQL
Framework Django, Flask
Web Development HTML, JavaScript, React
Software & Tools LaTeX,Keras,Tensorflow, MATLAB

ACCOMPLISHMENTS

- 🏆 **High flyer at Amadeus Labs**
For thorough analysis, optimization and delivery in Q4-2020.
For building Django prototype for our product hack, featured in top 5 at Amadeus.
- 🏆 **SAFe certified**
Cleared the course exam with 96 percentile and executing it in daily work-life.
- 🏆 **Efficiency Cup**
Awarded by BGHS for overall excellence, 2009 and 2011.
Awarded by Sindhi Youth Association, 2013 and 2015.

EXTRACURRICULARS

- **Chair person** at IEEE Computer Society Student Chapter, 2018-2019.
- **Head of inGenius**, flagship hackathon at PESIT, 2018.
- Volunteer to teach Science and Mathematics at **Parikrama**, an NGO, 2017.
- Volunteer at **TEDx-PESITBSC**, 2018.
- Organized several technical and humanitarianism based **IEEE events** for the year 2017-2018.