

Haramrit Singh Khurana

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EDUCATION

- **Master of Science: Computer Science** | GEORGE MASON UNIVERSITY | GPA 3.67 | *Expected May 2021* **2019 - 2021**
- **Bachelor of Engineering in Computer Engineering** | UNIVERSITY OF MUMBAI | GPA 4.0 **2015 - 2019**

EXPERIENCE

Nexus 8 International, Washington DC | Software Engineer | Internship | May 2020 – Present

- Used **C#, object-oriented (OO) design patterns**, relational DBs, and data modeling techniques to update existing model schemas
- Gathering and analyzing business and functional requirements and translating business requirements into technical design specifications.
- Worked on implementing the “image upload” and “comment like” feature by developing appropriate web components using **ASP.NET Core** framework and **Blazor** and managed version control and DevOps with **Git** and **Azure**
- Worked with the Play Services Publishing team to **publish the app** on Play Store

George Mason University, Fairfax, VA | Graduate Teaching Assistant | August 2019 – Present

- Working as a Graduate Teaching Assistant and Lab Instructor for the course Applied IT Programming (IT 207) at GMU, instructing and grading the students on **HTML, CSS, PHP and MySQL coursework**. Resolve any student queries throughout the course.
- Assisting two faculty instructors by **teaching a batch of 60 students** in recitation, laboratory, and discussion sessions, helping software users in a Computer laboratory.

Don Bosco Institute of Technology, Mumbai | Full Stack Developer | Internship | June 2018 – December 2018

- **Remodeled** the website Don Bosco Journal of Science and Engineering - a portal for the submission and review of academic papers
- **Lead a team** of six developers to write reusable, testable and efficient code using Node.js & Mongoose
- Introduced a **tag-based paper-reviewer matching algorithm** to automate the review assignment process
- Achieved a **3x speedup** over its previous iteration.

CERTIFICATIONS

- AWS Certified Solutions Architect – Associate (AWS SAA) **June 2020**

PROJECTS

Student Survey Form | Feb 2020 – May 2020

- **Led a team** of industry professionals and deployed a student survey web application using **Angular 8, Docker** and **Kubernetes**
- Used **Jenkins** and GitHub for **continuous integration and deployment**
- Wrote and **deployed RESTful API** for CRUD operations using **Lambda** and **DynamoDB**

wha2do | Feb 2020 – Present

- Designed and developed a minimal design to-do list app using **React Native** and **Firebase**
- The app allows users to organize tasks into lists for effective management and tracking
- Implemented **swipe gestures** to make it easier for the user to mark task status

[Play Store Link:](#)



A Resource Effective Approach for Distributing Machine Learning Models over a Cluster | Jul 2018 – Apr 2019

- Developed an **interactive desktop application** that lets a user give as input the machine learning model, the dataset, and optimization parameters to facilitate the **automation** of the **training process distribution** over a local network
- Maintained accuracy and achieved an overall **10% reduction** in model training time
- Used **Electron.js** and **Batch scripting** for developing the application, **TensorFlow** for devising the test models

[YT Demo Link:](#)



SpaceTerra | Dec 2016 – Feb 2017

- Developed a single player HTML5 canvas game using **Phaser.io** game engine and **TexturePacker**
- Project went live for ACM-DBIT's online gaming fest, TEKneck 2017
- Used **Node.js** and **MongoDB** to host the web application on a PM2 load-balanced Nginx server
- Played by **over 20,000 players** through the festival making it the most successful game of the event

SKILLSETS

- **Programming Languages:** Python, Java, C, C#, C++, R, Ruby
- **Database Systems:** MySQL, MongoDB, Oracle SQL, PostgreSQL, Redis
- **Web Technologies:** NodeJS, PHP, CSS Flexbox, **AJAX, JSON**, RESTful Architecture
- **Frameworks:** React Native, Angular6, **Django**, Swing, Hibernate JPA, **Bootstrap**
- **Others:** **GitHub, Docker, Kubernetes**, Android, JUnit Testing, Hadoop, Jenkins, D3.js, Tableau

PUBLICATIONS

- A Resource Effective Approach for Distributed Machine Learning over a Local Network, Aarish Iyer et al, IEEE ICAC3 (2019), Mumbai