Hostel - 10 (B - Block) Dr. APJ Abdul Kalam Bhawan MANIT, Bhopal 462003

# JISHAN SHAIKH

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## **EDUCATION**

### Bhopal, M.P.

### **National Institute of Technology**

2016 - Present

- Bachelor of Technology in Computer Science & Engineering. Expected Graduation 2020. GGPA: 8.4/10
- Research Interests & Expertise: Software Engineering, Machine Learning (DL, CV, and RL), Software Security.

### Bhopal, M.P.

# **Board of Secondary Education**

2015

- Intermediate / +2. Marks: 93.8%. District Rank 3 and overall rank in the state < 15 among 500 K students.</li>
- Received INSPIRE scholarship by Government of India for being under top 1% from all across the India.

# MAJOR ACADEMIC PROJECTS (SELECTED)

### **Web Browser Security Framework**

## Security

### github.com/jishanshaikh4/jaam

- Survey of browser security (attacks and preventives), & development of framework for security concerns.
- Trained a model for malicious URL detection using Logistic Regression, and developed a tool (Tkinter) for it.
- Technologies: Python and Tkinter. Minor (CSE-319 & 329). Dr. Deepak Singh Tomar. GPA: 9.79/10 and 9.38/10

### **Image Segmentation Optimization**

#### **Computer Vision**

# github.com/jishanshaikh4/is-cv

- Devised a new technique for supervised and unsupervised image segmentation of state-of-the-art results.
- Paper manuscript ready to be published on CVPR 2020 or ICCV 2020. Published on arXiV (Sooner).
- Technologies: Sklearn, Python, OpenCV, Jupyter notebook. Seminar (CSE-418). Dr. Jyoti Bharti. GPA: 10/10

# Chess Al using Min-Max

### **Artificial Intelligence**

### github.com/jishanshaikh4/chess

- Implemented Min-Max algorithm with alpha-beta pruning + Depth Limited Search at d = {1, 2, 3, 4, 5}.
- Imparted with positional matrix evaluations for each piece resulting in a player with ELO > 1900 at d = {4, 5}.
- Technologies: JavaScript, chess.js, chessboard.js. AI (CSE-327). Dr. Mansi Gyanchandani. GPA: 9.5/10

#### **School Administration System**

### Language (PHP)

### github.com/jishanshaikh4/sas

- Created a minimally styled system for almost all the school facilities using fundamental PHP programming.
- Technologies: PHP, HTML, CSS, JavaScript. Java/PHP (CSE-228). Dr. Yatendra LR Sahu. GPA: 10/10

### **TECHNICAL EXPERIENCE (OPEN SOURCE)**

### **Projects**

- Metro System Database Management (2017). UI & UX developed using custom databases. SQL, HTML, CSS.
- lib-math (2017 ). Library in C with 500+ interfaces include statistics & cryptography. Portable to Python 3.8
- Speed Video (2019). Video player with 6× speed facility and Picture in picture support for Firefox. JavaScript.
- Material Design (2016 -). Open design solutions such as textbook title pages, book format, file icons, etc.

#### Research

- JAAM Paper (2018 19). JAAM: Web Browser Security Framework. PDF. [Prof. Deepak Singh Tomar]
- Segmentation Paper: (2019 –) Image Segmentation Optimization Technique. LINK.

[Prof. Jvoti Bharti]

Metro Paper (2017 – 18). Metro System Database Management. PDF.

[Prof. Sweta Jain]

Planning Paper (2017 –). Security Issues in Software Planning Process. LINK.

[Independent]

# **ADDITIONAL EXPERIENCE AND AWARDS**

- National Cadet Corps (NCC): (2016 19) Rank L. Corporal, Dance Coordinator, and Senior core team member.
  - Earned C (with A grade) and B (with B grade) certificates from NCC Directorate MP/CG, India.
  - Attended 3 annual camps comprising 2 National Camps (NIC and AITC) and 1 Training camp (CATC).
  - Won 2 National Gold medals (1 individual and 1 team) at NIC, Maihar among 600 Cadets from all over India.
- Scholarships: Merit-cum-means and INSPIRE (by Indian govt.) & Encouragement and CM Merit (by State govt.)
- · Online Profiles: Github, LinkedIn, Youtube, Twitter, Dribbble, Hackerrank, Interviewbit, Codechef, Lichess.

### **LANGUAGES AND TECHNOLOGIES**

- C++; C; Java; Python; Objective-C; C#.NET; SQL; JavaScript; PHP; LATEX; HTML; CSS; MATLAB; etc.
- VS Code; Atom; Kraken; GEdit; Eclipse; Netbeans; JetBrains Toolbox; Octave; OBS; etc.