

JISHAN SHAIKH | RÉSUMÉ

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🎓 EDUCATION

Maulana Azad National Institute of Technology, Bhopal (M.P.) India 2016 – Present
Bachelor of Technology, Computer Science & Engineering, Anticipated Graduation: 2020. CGPA: 8.4/10

🔖 MAJOR OPEN SOURCE PROJECTS

JAAM

<https://github.com/jishanshaikh4/jaam/blob/master/v2.pdf>

Python. Web browser security framework.

- Accepted minor project (CSE-319 & 329) for research of modern browsers. Abstract paper available. GPA: 9.79/10
- Survey of browser security (attacks, threats, and preventives), and development of framework for security concerns.
- Trained a model for malicious URL detection using Logistic Regression, and constructed a tool (Tkinter) for the same.

lib-math

<https://github.com/jishanshaikh4/lib-math/>

C++/C, Python, Qmake. A mathematical & scientific library.

- An efficient library having documented implementation of more than 500 interfaces so far. Portable to Python 3.x
- Topics include calculus, arithmetic & geometric math, numerical methods, transforms, statistics, cryptography, etc.

Metro System

<https://www.github.com/ankitjishan/metro/blob/master/metro.pdf>

SQL, PHP, JavaScript. Modern railway system prototype.

- A management system (UI & UX) developed using custom databases. Published report & project paper (45+ pages).
- Long term research focuses on performance analysis of various DBMS engines (e.g. Postgresql) on security and efficacy.

Chess AI

<https://www.github.com/jishanshaikh4/chess-ai/blob/master/v1.pdf>

JavaScript. Chess program using min-max and alpha-beta pruning. Estimated ELO: 2000 at depth=5.

- Depth limited search and positional matrix evaluation (chess.js and chessboard.js). AI Lab CSE-326, GPA: 9.2/10

🚀 OTHER PROJECTS

- Reversed Chess** *Chess for extroverts*. An anti-chess implementation using Math.Random (chess.js & chessboard.js).
- Filter Search** *Web application module*. Separately implemented using PHP and Codeigniter for quality assessment.
- Chatbot** *English seq2seq translator*. Modeled on keras using Reddit dataset (70M pairs) stored in MySQLite database.
- e-MANIT (v0.1)** *Your own shopping destination*. An e-commerce web application for a fictional ecosystem.
- lib-algo** *An algorithmic library*. Collection of programs from the text Algorithms implemented in C++ and Python.
- Speed Video** *Play video at your speed*. Video player with 6× speed facility and Picture in picture support for Firefox.

</> TECHNICAL SKILLS

- Programming Languages:** *Multilingual*. Experienced in C++, Python, Java, C. Comfortable with SQL, JS, PHP.
- Others:** *Familiarity with* HTML, Git, CSS, Shell, Linux, \LaTeX , Android, MATLAB, Hadoop, CUDA, etc.

📄 DRAFTED PAPERS

- [1] *JAAM: Web Browser Security Framework*. **J. Shaikh**, A. Chouhan, et al. [Supervisor: Dr. Deepak Singh Tomar]
[2] *A brief survey of Software Planning process digging security issues*. **J. Shaikh** [Independent]

📁 MISCELLANEOUS

- Competitive Programming:** 6 stars at [hackerrank](https://www.hackerrank.com). Overall university rank 3 in Algorithms section (5500+ hackos).
- ML-Papers:** Initiated [#100DaysOfMLResearch](#) challenge, and proposed a 100 days curricula (readings) for it.
- Freelance content developer:** Consistently provided quality content to gradeup.com and chegg.com ([work samples](#)).
- Chrome Plugin:** Improved [Batch Link Downloader](#); an extension having 60 K+ users on chrome extension store.
- Games:** Developed and published simple games in JavaScript such as [Mole in the Hole](#) and [JDrum Kit](#) from JS 30.
- Open Source:** Collaborated various solutions to [Github](#) community (issues, pull requests). 1100+ contributions.
- Material Design:** Provided various open design solutions such as [textbook title pages](#), [book format](#), [file icons](#).
- Scholarships:** [Merit-cum-means](#) and [INSPIRE](#) (by Indian govt.) & [Encouragement](#) and [CM Merit](#) (by State govt.)

⚡ OTHER CURRICULAR ACTIVITIES

- National Cadet Corps:** Rank L. Corporal, Dance Coordinator, and Senior core team member. C and B certificates.
 - 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.
- Simple Solutions:** A virtual non-profit startup publishing documents on technology education e.g. [8086 Cheatsheet](#).