Krishh Singh

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EDUCATION

University of Oxford **Oxford, UK**
Bachelor of Electrical and Electronic Engineering *2025 – 2028*

- Modules: Calculus, Linear and Complex Algebra, Differential Equations, Circuits, Digital Electronics, Dynamics, Solid Mechanics, Fluid Mechanics, Heat and Mass Transfer, Thermodynamics, System Design

Gems Genesis International School **Gujarat, India**
A-levels *2019 – 2024*

- 4 A*s in Maths, Further Maths, Physics, and Chemistry
- World Topper in Further Maths and highest overall score in the country across all subjects
- Member of the New York Academy of Sciences, worked on several AI and tech projects
- Distinction on the AMC 12

WORK EXPERIENCE

Indian Institute of Technology - BHU **UP, India**
Research Intern *Mar 2023 – Jun 2023*

- Worked on adaptive control of a 2-DOF helicopter under the mentorship of Prof. Kamal
- Utilised mathematical modelling, programming, and simulations alongside PhD. candidates
- Responsible for performing data collection and converting the mathematical models to code
- Honed skills in Python, C#, SQL, LaTeX, and MATLAB

TIDE International **Remote**
Part-time Software Developer *Jan 2023 – Aug 2024*

- Developed EmpowerEd, a platform for teachers in rural areas to connect and learn from each other
- Applied Python, Javascript, PHP, React, and trained ML models
- Completed projects with end-goal of producing an educational social media like platform for educators

CricHeroes **Gujarat, India**
Software Engineering Intern *Jan 2023 – Mar 2023*

- Implemented scalable code in Node.js, reducing load times by 8% across 1M+ active users
- Engineered functionalities like real-time match tracking and analytics page with efficient state management
- Worked across teams to deliver production-grade code within a small deadline, applying CI/CD pipelines

INDEPENDENT WORK

Photovoltaics Research **Gujarat, India**
Independent *Nov 2024 – Mar 2025*

- Conducted research on photovoltaic system optimization, analyzing the impact of panel tilt, azimuth, and irradiance using Python-based simulation models, achieving insights that could improve energy output by 79% under variable conditions
- Mentored by a researcher and PhD. candidate at Caltech
- Authored a research paper on “Optimal Irradiation on PV Panels in Gujarat,” synthesizing findings into actionable recommendations by applying simulation modeling and statistical analyses

ADDITIONAL INFORMATION

Skills: Proficient in Python, SQL, C, Data Structures, C++, React.js, MATLAB, Excel, ML

Personal: Value Diversity, Mentorship, Self-Sufficiency, Clear Communication, Problem Solving

Interests: Soccer, Maths, Poker, Calisthenics, Music, Golf, and Video Games