

Eshwen Bhal

PHD STUDENT

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Education

University of Bristol

Bristol, United Kingdom

DOCTOR OF PHILOSOPHY IN PHYSICS

April 2020 (Expected)

- Thesis title: **Hadronic Dark Matter Searches at CMS at 13 TeV** — Expected submission in April 2020
- **Postgraduate student representative** for the particle physics group, 2019–20 — Role in the Student-Staff Liaison Committee for the School of Physics

University of Exeter

Exeter, United Kingdom

MASTER OF PHYSICS WITH HONOURS IN PHYSICS WITH ASTROPHYSICS. AWARD: FIRST CLASS (77 %)

July 2016

- Recipient of a **Physics Award**, 2013 — Being one of the three students with the highest marks at the first stage of my degree
- Recipient of a **Dean's Commendation**, 2013 — In recognition of outstanding achievement at the first stage of my degree
- Recipient of a **Dean's Commendation**, 2014 — In recognition of outstanding achievement at the second stage of my degree
- Recipient of a **Physics Award**, 2015 — Being one of the three students with the highest marks at the third stage of my degree
- Recipient of a **Dean's Commendation**, 2016 — In recognition of outstanding achievement at the fourth stage of my degree

Monmouth Comprehensive School

Monmouth, United Kingdom

SECONDARY SCHOOL QUALIFICATIONS

August 2012

- **A Level**, 2011–12 — Biology (A*), Mathematics (A*), Physics (B), Chemistry (B, AS Level)
- **Open University**, 2012 — Introducing Astronomy (10 credit course)
- **GCSE**, 2010 — 10 including English Language and Mathematics at grades A* to A
- **WJEC Key Skill**, 2010 — Communication (Level 2)

Skills

Programming Languages Python, C, C++, LaTeX

Experience

Facebook

Menlo Park, CA

SOFTWARE ENGINEER

July 2019 - PRESENT

- placeholder

Toast

Boston, MA

SOFTWARE ENGINEER INTERN (PART TIME)

Feb. 2019 - Apr. 2019

- placeholder

Drizly

Boston, MA

SOFTWARE ENGINEER INTERN

May. 2018 - Aug. 2018

- Implemented a re-designed onboarding flow for new retailer customers, improving the onboarding process for account managers and customers with automated Salesforce integration.

Facebook

Menlo Park, CA

SOFTWARE ENGINEER INTERN

Jan. 2018 - Apr. 2018

- Helped migrate the Instagram Django web server to perform parallel IO operations and handle concurrent requests within each worker process to reduce latency and increase capacity as the web framework scales with users, servers, and developers.
- Created a framework to safely predict the performance and correctness of server worker processes handling concurrent requests from a production environment. Preemptively caught and fixed regressions related to increased cpu instructions, caching, and global state contamination

Toast

Boston, MA

SOFTWARE ENGINEER INTERN

Jan. 2017 - Aug. 2017

- Built a microservice, database schema, and related web pages to manage customer accounts — 50,000+ created within the first two months.
- Designed and helped implement a second microservice as a month-long architecture refactor to reduce technical debt and build the infrastructure for upcoming payment features.
- Enhanced the audit tool to query real-time data from restaurants' Android devices, proactively resolving customers' configuration bugs.

CSTUY Hacking Sessions

New York, NY

PROGRAMMING MENTOR, TA

Sept. 2014 - Mar. 2015

- Taught programming concepts to high school students using Java and Processing while providing input for lesson plans and project ideas.