

SHIV BHATIA

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EDUCATION

Imperial College London [October 2020 – June 2024]

Mathematics and Computer Science MEng

EXPERIENCE

Palantir (Software Engineering Internship) [June 2023 – Present]

- Fullstack development with Java, GraphQL, and Typescript
- Reduced load times for a core microservice by 95% by optimising backend queries
- Created a feature that allows users to visualise automated processes in their organisation

Microsoft (Software Engineering Internship) [June 2022 – September 2022]

- Fullstack development with Java, Python, and Typescript
- Added end-to-end video conferencing functionality to MaXUC, an application that allows organisations to communicate internally

OfficeHours (Co-Founder and CTO) [March 2020 – August 2020]

- Built a platform for university educators to hold virtual office hours during Covid-19
- Raised \$100k from Open Water Accelerator before shutting down operations

NTT Data (Research Internship) [January – July 2019]

- Investigated a new technique in generative adversarial networks
- Created an analysis of the performance of different variants of reinforcement learning for simulated control problems

PROJECTS

Imperial Planetary Robotics Lab – European Rover Challenge [March 2023 – Present]

- Software lead for the project
- Created the computer vision system for a Mars rover prototype, using a 360 degree camera to continuously detect ArUco codes in the environment for simultaneous localisation and mapping

RCoin [October 2022 – December 2022]

- Worked in a team of 6 to create a real-time auditable stablecoin and mobile payment platform to replace the expensive existing payment solutions in Eswatini
- Developed infrastructure designed to detect fraud and irregular network loads
- Consulted with the finance minister of Eswatini on how to improve our mobile app
- Headline presentation at Brewan Howard Crypto Showcase Event 2023

WACC Compiler [January 2022 – March 2022]

- Designed and built a compiler for WACC, a variant on the While family of languages
- Parsing and AST construction using Parsley library

PintOS [September 2021 – December 2021]

- Extended a skeleton framework of an 80x86 architecture operating system
- Built priority based and multilevel feedback queues to handle threads and added user programs

MetaWord2Vec [November 2020]

- Created a minimal language embedding model in Pytorch
- Successfully learned semantic relationships between words in the embedding space while being 90% smaller than existing SOTA embedding models

AWARDS

Ocado Technology Group Project Prize 2023

- Awarded to the best 3rd year group project

G-Research Prize (Year 2)

- Awarded to the top ten computer science students across all undergraduate years

Dean's List (Year 2, Year 3)

- Awarded to the top 10% of students in the year

Polaris Fellowship 2023

- A program organised by Entrepreneur First to help ambitious individuals build their projects

SKILLS

[Languages]: Python, Typescript, Rust, Java, Haskell, C, Scala