

# HARJOT SINGH

Full-stack Engineer

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## SKILLS

<b>Languages</b>	JavaScript (ES8 + Node.js), TypeScript, Java, Python, Delphi, HTML5, CSS3, C, PHP, Assembly, Go, Haskell, SQL, Bash
<b>Frameworks &amp; Libraries</b>	React, Angular, React Native, Redux, Vue, Bulma, Semantic UI, Material UI, Jupyter, Pandas, Flask
<b>Data Stores</b>	PostgreSQL, MySQL, SQLite3, Oracle, DB2, ElasticSearch
<b>DevOps</b>	Docker, Kubernetes, NGINX, Traefik, CircleCI, Travis, GitLab CI, Flux, GitOps

## EDUCATION

**UNIVERSITY OF WARWICK, COVENTRY, 2015 – 2019**

MEng, Computer Science (1<sup>st</sup> Class).

**MERCHANT TAYLORS' SCHOOL, NORTHWOOD, 2010 – 2015**

A-LEVELS: 2013-2015

A\*A\*A\*AAB in Maths, Computing, EPQ (Bitcoin Trader), Electronics, Physics AS, Further Maths.

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GCSES: 2011-2013

10A\*, including English, Maths, and Computing.

## PROJECTS

Some recent projects, with brief details, include:

- **Skouted** – Connects football players of all levels to scouts. Startup venture in development.
- **Shabad OS** – OSS presentation software for Sikh scriptures. Node, SQLite3, Electron, React.
- **Cross-Asset Trader** – Cross-asset capital allocation models. Python, PostgreSQL.
- **Stock Anomalies** – Flags anomalous trades across FTSE 100 stocks. Java 8, PostgreSQL, React.
- **Volunteer Manager** – Manages volunteers for helpline. Node.js, Less, PostgreSQL.
- **Envolve** - Connects people wanting to do the same activity. Node.js, Bootstrap, PostgreSQL.
- **Bitcoin Trader** – Analyses and trades on Bitcoin exchanges. Node.js, Angular.js, PostgreSQL.
- **Minecraft Manager** – Manages Minecraft client in school environment. Delphi, MySQL.
- **BeforeDark.co Sunset Notifier** – Semi-finalists for YRS festival of code 2014. PHP, MySQL.

Visit <http://harjot.me> for more details on projects.

## ROLES

### SKOUTED, CTO

01/10/2018 – CURRENT

- Led agile team of 5 to develop social media platform connecting scouts and footballers.
- Architected scalable backend, leveraging containerised cloud infrastructure.
- Designed & developed pitch decks, business cards, and branding materials.

### WARWICK INCUBATOR, CTO & TECH MENTOR

01/03/2017 – 31/05/2019

- Technical and business mentoring of cohort startups.

### MORGAN STANLEY, SUMMER TECHNOLOGY ANALYST

25/06/2018 – 31/08/2018

- Built Unsecured Funding Intraday views to aid Treasury understanding of unsecured loans over a given date range. Involved extending existing Java backend and Angular frontend.
- Designed and implemented new summary views for Regulatory Reporting, allowing Treasury to generate quarterly comparison graphs for steering committees with speed and ease.

### GAMBIT RESEARCH, SUMMER FULLSTACK ENGINEER

05/07/2017 – 29/09/2017

- Developed diagnostics tool in React to allow customisable visualisations of errors, saving the company money by rapidly diagnosing faults.
- Redeveloped trader ticker display for desktops and TV screen displays in React.js, visualising real-time information more concisely.

### MORGAN STANLEY, TECHNOLOGY INSIGHT PROGRAMME

27/03/2017 – 30/03/2017

- Observed the importance and usage of technology in an investment bank.

### THOROGOOD ASSOCIATES, DATA ANALYST INSIGHT

11/07/2014 – 17/07/2014

- “Big data” manipulation and visualisation as a data analyst.
- Highlighted trends and links between geographical regions and products via visualisation.

### ORACLE, TECHNOLOGY INSIGHT

18/02/2014 – 19/02/2014

- Large scale application security and deployment overview.

### BP, TECHNOLOGY INSIGHT PROGRAMME

29/07/2013 – 07/08/2013

- Experienced the role of IT as a secondary function, in Sunbury and Stockley Park offices.

### WELLS FARGO, INSIGHT PROGRAMME

22/07/2013 – 26/07/2013

- Completed client onboarding prototype software, to be used when carrying out compliance and risk assessment on new clients – company offered to buy development rights.

## AWARDS

- J.P. Morgan Code for Good 2017 Finalist
- BAE Systems Capture the Flag cybersecurity challenge 2<sup>nd</sup> place
- WarwickHack 2017 Bloomberg prize winner
- Morgan Stanley sponsored prize for highest coursework mark in CS126 Design of Information Structures (96%), 2016
- Second place and winner of Credit Suisse prize at WarwickHack hackathon, 2016
- Highest mark in Extended Project Qualification (EPQ) prize (100%), for designing, implementing, and presenting an automated Bitcoin Trader, 2015
- Best in Year – Junior & Senior Computer Science Prize, 2013 & 2015
- “Best in Show” award semi-finalists at Festival of Code, 2014