

HARJOT SINGH

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PROFILE

Bright, inquisitive, self-starter with strong interest in all aspects of IT and technology. Eager to combine a strong set of programming and problem-solving skills to gain a real world experience of software engineering.

SKILLS

Languages	JavaScript (ES6 + Node.js), Java, Python, Delphi, HTML5, CSS3, C, PHP, Assembly, Go, Haskell, SQL
Frameworks/Libraries	Semantic UI, Bootstrap, Bulma, Angular.js, React.js, Redux, Vue.js
DBMS	PostgreSQL, MySQL, SQLite3, Oracle
Workflow Tools	npm, Gulp, Webpack, Git, JSDoc, apiDoc, Babel, Mocha, Gradle
Deployment	Docker, Kubernetes, NGINX

EDUCATION

UNIVERSITY OF WARWICK, COVENTRY, 2015 – CURRENT

Currently a third-year undergraduate, studying the Computer Science MEng, on track for a first class.

Year 2	68.2% (Upper Second Class)
Top 3 modules:	
CS258 Database Systems	84%
CS256 Functional Programming	72%
CS262 Logic and Verification	71%
Year 1	76.9% (First Class)
Top 3 modules:	
CS126 Design of Information Structures	90%
CS131 Mathematics for Computer Scientists II	82%
CS140 Web Development	80%

MERCHANT TAYLORS' SCHOOL, NORTHWOOD, 2010 - 2015

A-LEVELS: 2013-2015

Maths (Edexcel A2)	A*
Computing (AQA A2)	A*
Extended Project Qualification (AQA Level 3)	A* [Automated Bitcoin Trader]
Electronics (OCR A2)	A
Further Maths (Edexcel A2)	B
Physics (AQA AS)	A

ADDITIONAL

Additional Maths (OCR)	A (Highest Grade achievable)
Further French (Institute of Linguists Diploma)	Distinction

GCSSES: 2011-2013

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

WORK EXPERIENCE

GAMBIT RESEARCH, 05/07/2017 – 29/09/2017

- Developed diagnostics tool in React.js 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, 27/03/2017 – 30/03/2017

- Insight to software development on a large scale
- Observed the importance and usage of technology in an investment bank

THOROGOOD ASSOCIATES, 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, 18/02/2014 – 19/02/2014

- Insight opportunity learning about structure of an IT company
- Large scale application security and deployment overview

BP, 29/07/2013 – 07/08/2013

- Experienced the role of IT as a secondary function, in Sunbury and Stockley Park offices
- Explored new technology applied to creatively solve problems, and gain a competitive edge

WELLS FARGO, 22/07/2013 – 26/07/2013

- Outlook over finance sector and roles – from trading to administration
- 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 2nd 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
- Senior computer science prize, 2015
- “Best in Show” award semi-finalists at Festival of Code, 2014
- Junior computer science prize, 2013

PROJECTS

Some recent projects, with brief details, include:

- **Stock Anomalies** – Flags anomalous trades across FTSE 100 stocks. Java 8, PostgreSQL, React.
- **Volunteer Manager** – Manages volunteers for helpline. Node.js, Less, PostgreSQL.
- **Robot Maze** – Solves mazes using depth-first searching. Java.
- **Involve** - 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 Launcher** – Manages Minecraft client in school environment. Delphi, MySQL.
- **BeforeDark.co Sunset Notifier** – Semi-finalists for YRS festival of code 2014. PHP, MySQL.

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