HARJOT SINGH

FULL-STACK ENGINEER

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SKILLS

Languages	JavaScript (ES8), TypeScript, Java, Python, Delphi, HTML5, CSS3, C, PHP, Assembly, Go, Haskell, SQL, Bash
Frameworks & Libraries	Node.js, React, Angular, React Native, Redux, Vue, Bulma, Semantic UI, Material UI, Jupyter, Pandas, Flask, Jest, Mocha, Cordova, Express, Fastify
Data Stores	PostgreSQL, MySQL, SQLite, DB2, ElasticSearch, MongoDB, Cloud Firestore
DevOps	Docker, Kubernetes, NGINX, Traefik, CircleCI, Travis CI, GitLab CI, GitHub Actions, Flux, GitOps

EDUCATION

University of Warwick | Coventry   2015 - 2019
Master's of Engineering, Computer Science (1st Class)

Merchant Taylors' School | London   2010 - 2015
A-Levels   2013 - 2015
A*A*A*AAB in Maths, Computing, EPQ (Bitcoin Trader), Electronics, Physics AS, Further Maths

GCSEs   2010 - 2013
10A*, including English, Maths, and Computing

ROLES

Shabad OS | Lead Engineer   26/12/2017 - Current

- Developed the first and premier solution for Sikh professional and online TV channels to provide live captions, reaching millions of viewers.
- Implemented unique, open-source version control tooling via git to track changes to database contributions, becoming the most used data source of its kind across the UK, Canada, and India, with over 10,000 downloads per week.
- Initiated agile software development, workflows, and project management practices to accommodate scalable, collaborative open-source work, resulting in team growth to over a couple dozen.
- Responsibilities of peer review, mentorship, and managerial responsibilities across six projects, facilitating approximately 50 pull requests per month by 7 different contributors.

Kaiku | Lead Engineer   15/02/2020 - Current

- Specified, designed, and implemented a user-facing platform to automate the matching of investors to startups, saving employees hundreds of hours per month.
- Led product scrum team of three to establish and deliver a product roadmap.

Skouted | CTO & Lead Engineer   01/10/2018 - 01/02/2020

- Built & led agile team of 5 to develop a social media app connecting 3600 scouts, footballers, and fans.
- Developed moderator portal to regulate any of the 2400 posts on the platform and verify the credentials of 360 scouts.
- Designed & created pitch decks, business cards, and branding materials, presented to over 50 investors.

Morgan Stanley | Summer Technology Analyst   25/06/2018 - 31/08/2018

- Built comparison tool to analyse and minimise Treasury's unsecured loans, reducing costs and risk.
- Created self-generating summaries with comparison graphs for Regulatory Reporting, saving Treasury several hours per month.

Gambit Research | Summer Full-stack Engineer   05/07/2017 - 29/09/2017

- Developed root cause diagnostics tool to visualise platform errors, saving the company up to £100K in some instances.
- Redesigned and overhauled legacy trader ticker into a real-time display for desktops and TVs using modern extensible technologies within the ecosystem.

Warwick Incubator | CTO & Tech Mentor   01/03/2017 - 31/05/2019

- Mentored 25 startups on technical and business matters, with 3 startups securing external investment.
- Organised and ran 2 startup demo days at The Shard with 200 attendees, exposing 10 finalist startups to many dozens of potential investors, several of which were later awarded grants.

Insight Programmes

Morgan Stanley   27/03/2017 - 30/03/2017

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

Thorogood Associates   11/07/2014 – 17/07/2014

Highlighted trends and links between geographical regions and products via visualisation.

Oracle   18/02/2014 - 19/02/2014

Large scale application security and deployment overview.

BP   29/07/2013 - 07/08/2013

Large scale application security and deployment overview.

Wells Fargo   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 Finalist   2017
- BAE Systems Capture the Flag cybersecurity challenge 2nd place   2017
- WarwickHack Bloomberg prize winner   2017
- 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