

Hari Bhandari

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EDUCATION

- **University Of York, York, UK**

B.Sc. in Computer Science with Year in Industry, Oct 2021 – Present

- Gained a comprehensive foundation in computer science, covering assembly, hardware design, and high-level programming languages including C, Python, and Java.
- Studied Turing machines, non-deterministic automata, and NFA automata as part of theoretical computer science coursework.
- Engaged in machine learning projects, utilizing PyTorch for various applications.
- Acquired hands-on experience in low-level hardware programming using Xilinx.
- Developed a deep understanding of data structures, algorithms, and heuristics.
- Explored systems design topics such as deadlocks and resource allocation.
- Gained proficiency in both SQL and NoSQL databases.
- Conducted research in Human-Computer Interaction, focusing on the impact of UI on user behavior.
- Participated in engineering group work, including game development in Java, implementing unit testing, and setting up CI/CD pipelines.
- Maintained a consistently high academic performance, averaging over 80% in the first two years.

- **The Phoenix Collegiate, West Bromwich, UK**

A Levels and GCSEs, Jan 2016 – Jan 2019

- Recognized by teachers for exceptional educational growth.
- Had a work experience within the Maths department, assisting in tasks like sorting grades, calculating grades, drawing graphs, and setting predicted grades.

WORK EXPERIENCE

Dashing Distribution Software

York, United Kingdom

Project Lead and Software Architect-Placement Year

2023 June – Current

- Built an AI chatbot to assist customers in looking up electronic component part datasheets, writing RFQ emails, searching for alternative part numbers, and more.
- Constructed a CRM and established a link with Xero for full-stack invoice/quote management.
- Enhanced the excess system, implementing features like multi-currency quoting, AI-powered classification of part numbers, tariff codes, and countries of origin.
- Integrated OEM Secrets API to fetch franchise prices for each part number.
- Automated various processes to increase system efficiency and user convenience.

Dashing Distribution Software

York, United Kingdom

Part-time Software Engineer

2022 August – 2023 May

- Led the development of the "Excess Stock Management" software project, advancing from concept to execution.
- Designed the architecture and implemented features to support spreadsheet importation, capable of handling over 100k rows of data at once without performance issues.
- Developed a consignment system to manage stocks, along with features for generating purchase orders and conducting inspections.
- Implemented live tracking of inventory items, providing real-time updates and insights.
- Built a robust quoting system for inventory items, streamlining the sales process.
- The application now supports a wide range of functionalities including stock consignment, purchase order generation, inspection processes, live tracking, and more.
- Developed consignee portal and item checking feature in inventory system.

- Automated the generation of purchase orders from bids.

Dashing Distribution Software

Software Engineer Intern

York, United Kingdom

2022 June – 2022 August

- Developed robust server-side and client-side code for a Licensing System.
- Developed an eCommerce feature within the Licensing System for clients to purchase additional licenses.
- Integrated Stripe webhooks to handle monthly subscriptions.
- Developed a comprehensive licensing portal for efficient license management across all companies.
- Developed an automatic updater for the Delphi application.

Freelancer on Fiverr

Software Engineer

Remote

Jun 2019 – Sep 2022

- Built several projects for various clients, planning website development and converting mockups into usable web presence using HTML, JavaScript, AJAX, and JSON.
- Adhered to SEO best practices while designing sites.
- Engaged with clients to plan and optimize site issues and queries.
- Configured and deployed existing and future REST APIs, integrating with third-party APIs.
- Helped a client build an e-commerce store using the MERN Stack.

AWARDS & ACHIEVEMENTS

Cognizant Scholarship: Awarded by the American company Cognizant in recognition of academic achievements.

Enigma Scholarship: Awarded by CEO Dr. Max Noble of VISFO for outstanding performance in computer science.

Highest Marks in Maths and Further Maths at The Phoenix Collegiate: Achieved the highest marks in Maths and Further Maths during tenure at The Phoenix Collegiate.

Rapid Promotion at Dashing Distribution Software: Promoted from Intern to Developer within just two months, taking on major responsibilities in the business.

BloodBank for Nepal: Built a BloodBank application that garnered over 1000 users in Nepal, encouraging blood donation.

Exceptional Performance in Machine Learning Group Project: Achieved an unprecedented 76% accuracy in a university project focused on classifying 102 types of flowers using the EfficientNet architecture, without the use of pretrained models. This performance stood as the highest by a significant margin, surprising the instructor with the exceptional results.

PROJECTS

BloodBank | [GitHub](#)

- Developed a life-saving application using MERN Stack that connects blood donors with patients in need.
- Implemented real-time notifications to alert compatible donors via email and text messages.
- Achieved a user base of over 1000 within a few months, significantly aiding patients in urgent need of blood.
- Hosted on Azure using GitHub actions.

WiseCart (MERN Stack) | [GitHub](#)

- Engineered an advanced e-commerce platform allowing seamless buying and selling of both physical and digital goods.
- Developed a comprehensive admin panel for order processing, shipping management, and customer service.
- Integrated Stripe API for payment processing and Cloudinary API for image management.

Sorting Algorithm Visualiser | [GitHub](#)

- Designed a dynamic React application aimed at visually representing various sorting algorithms for educational purposes.
- Optimized for high performance and cross-device responsiveness, offering an ideal solution for both students and educators.

SKILLS

Programming Languages: TypeScript, JavaScript (ES6+), Python, Java, C++, C#, C, Pascal, Haskell, Assembly

Web Development: React.js, Node.js, HTML & CSS, BootStrap, Gatsby, Next.js, Express.js

Database Management: MongoDB, MSSQL, SQL

DevOps & Deployment: Git, CI/CD, AWS, Azure, Digital Ocean, Windows IIS

Backend Technologies: Firebase, RESTful API

Testing Frameworks: Jest, Cypress, JUnit for Java, unittest for Python

Data Science & ML Libraries: PyTorch, NumPy, Pandas

Design & UI/UX: Photoshop, Figma

Methodologies: Agile/Scrum

SEO & Accessibility: SEO Best Practices, Accessibility (A11y)

Other Technologies: MATLAB, Xilinx ISE

REFERENCES

References are available upon request.