JASON GRANT

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EDUCATION

SETU — South East Technological University — Waterford, Ireland
HDip in Computer Science — *Jan. 2021 – May 2023*

UCC — University College Cork — Cork, Ireland
Bachelor of Electrical and Electronic Engineering (BE) Honours Degree — *Sept. 2012 – May 2017*

EXPERIENCE

WEB Developer — Nov 2022 – Present
DMI — Digital Marketing Institute — *Dublin (Remote)*

- Feature Development: Implementing new features on the website using JavaScript, Expression-Engine, SQL queries and PHP/Laravel.
- API Integration: Working with OpenAPI documentation and third party APIs to facilitate a complete new integration with an exam provider
- Customer Support: Split my time between development and support for Ops team, supporting all aspects of the business from internal tools to external web application updates.
- POC Development: Developing a new learner exam experience concept from a Open API doc, Postman and PHP.

Software and Systems Engineer — Sep. 2020 – Oct 2022
WEST Pharma — *Waterford, Ireland*

- Software Integration Engineer in the Elastomer Automation Team
- Large scale R&D project transforming standalone pieces of equipment into a continuous one flow manufacturing line with systems and technologies such as PLC (Siemens, Beckhoff, Allen Bradley), OPC Server/Client, SCADA, Local Historians, Industrial protocols, upgrading network architecture etc.
- Presented architecture designs to Director of Automation.
- Conducted PUGH analysis for vendor selection process.
- Programmed logic and positional upgrades to KUKA Robotics

Senior Manufacturing Engineer — Nov 2019 – Sept 2020
Stryker — *Cork, Ireland*

- Additive Manufacturing Engineer for large-scale production ramp-up project
- Lead engineer in manufacturing ramp project, which included team of 10 Manufacturing, Quality and Validation Engineers.
- Wrote, performed and reviewed validation protocols and reports(IQ/OQ/PQ).
- Contribute to corrective and preventative actions through root cause analysis and change implementations
- Completed full validation lifecycle on 10+ pieces of manufacturing equipment and cross-qualified four product families on manufacturing machines. Including Equipment qualification, first article inspection, and technical report writing.
- Responsible for training,supervising and mentoring new engineers on the full validation life cycle of Additive Manufacturing machines and the associated products.
- Promoted to Senior Engineer within the first year of employment within the team
- Generated €50,000+ in annual scrap reduction by identifying an opportunity to increase spec limits on process monitoring step. Change included technical report, non-conformance management, Minitab statistical analysis of production data and presenting change to senior management.

PROJECTS

Examination Platform Upgrade: Pearson to Inspera | *PHP/Laravel, Postman, Tailwind* — Dec 2023 – Mar 2024

- Tasked with the scoping of migrating from one examination platform to another. Which includes allowing students to book, update and access their exams. As well as view results post exam submission and invigilation. Developed a full development road-map/plan for the following 3 months to hit our hard switch over deadline date, the project included:

* Conducted a full review of current process i.e. workflows, data-structures, databases, stored procedures, API integration's with Pearson.
* Created system on Postman, to walk through the full process with the new API endpoints that were available on Inspera's Open API site. i.e. book, update, cancel exam, retrieve exam results.
* Created a proof-of-concept in a local environment using PHP, HTML, and Tailwind, outlining all necessary pages and communications for the student journey.
* Provided extensive training to the Operations team on the new system via video tutorials, detailed documentation, live demonstrations, and one-on-one support.
* Collaborated with a team of three to handle the complete production build, testing, and deployment.
* Managed support items and troubleshooting post-launch, ensuring a smooth transition and user satisfaction.

Exam Invigilator Dashboard | *JavasScript, Tailwind, AJAX, SQL*   Mar 2024 – April 2024

* Developed a robust invigilator dashboard for an online examination system, allowing invigilators to monitor and manage exam candidates efficiently.
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* Integrated conditional logic to restrict access based on user roles, ensuring only authorized invigilators can access specific features.
* Implemented modals for detailed candidate review, allowing invigilators to update ID check status, exam review status, and add notes.
* Used JavaScript to dynamically generate and toggle modal content, enhancing user interaction without page reloads.
* Implemented asynchronous form submission using JavaScript's fetch API, ensuring seamless data submission and immediate feedback without disrupting the user experience.
* Provided continuous support and troubleshooting post-launch, ensuring smooth operations and addressing any issues promptly.

Loyalty App - Progressive Web App (PWA) | *Next.js, Strapi, Vercel, Tailwind*   May 2022 – June 2022
GitHub | github.com/jgrantprog1993/loyaltyApp

* Implemented and deployed a fully responsive full-stack progressive web app. Completed as a 'cap-stone' project for the higher-diploma. Developed the spec, created an agile project plan. Organised the project into two-week sprints with multiple milestones throughout the project. Technologies included:
* Front-end developed in Next.js, Tailwind. Also used technologies such as toastify, chart.js, axios, leaflet.js, font-awesome, react. Deployed using Vercel.
* Back-end developed using a CMS (Strapi v4.3), deployed using Heroku.
* Allows users to register as a generic user or as a business owner.
* Digital wallet for users loyalty rewards.
* Platform to encourage and track business growth for businesses.
* Scan QRCode to gain reward from business.

CoffeeHub - Full Stack Web Application | *Svelte, Hapi, MongoDB Atlas, Netlify*   Dec 2022 – March 2023
GitHub | github.com/jgrantprog1993/CoffeeHubV2

* Implemented and deployed a web application with a modern front-end technology from a design spec.Delivered in stages via several stage gates (these are viewable on Github).
* Front end developed in Svelte. Also included technologies such as svelte-spa-router, leafleft.js, svelte-frappe-charts, Bulma, Font Awesome.
* Backend developed in Hapi with a deployed mongoDB Atlas.
* Deployed – frontend using Netlify, backend using Heroku.
* API interaction with openweatherAPI.
* Images saved to cloudinary and read from cloudinary

TECHNICAL SKILLS

Languages: Javascript, Python, PHP, SQL (MySQL), Kotlin, HTML
Frameworks: Next.js, React, Node.js, Flask, Laravel, Svelte , Material-UI, FastAPI, Tailwind
Developer Tools: Git, VS Code, PyCharm, Amazon Web Service, TablePlus, Sequel Pro, Mamp PRO, Postman
DevOps:Amazon Web Services (AWS) - EC2, S3, CloudWatch, DynamoDB, Load Balancing and Auto-Scaling Dynamic Scaling Policies, Vercel, Heroku, Glitch, and Netlify
Other: Strapi CMS, Leaflet.js, Metabase, Arduino, Raspberry Pi, MQTT