James Hurley

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EXPERIENCE

SurveyMonkey   3050 S Delaware St, San Mateo, CA

Sr. Machine Learning Engineer   *Sep 1st 2021 - Present*

- Building applications and tools that accelerate the adoption of machine learning across all of SurveyMonkey's products. Extending and maintaining the architecture that supports integrating machine learning capabilities into different SurveyMonkey products that scale easily under high demand.
- Improving, debugging and monitoring production machine learning models used across our products for tasks like spam detection, personalisation, ranking, and surfacing insights.
- Building tools to automate workflows like model retraining, model monitoring (detecting performance in real time) and model evaluation. Researching and presenting new approaches to improve and streamline development and deployment of machine learning models at SurveyMonkey.
- Working closely with data scientists to build new machine learning models for new use cases and product requirements, focusing on feature engineering, deployment of models and monitoring.
- Extending machine learning capabilities to new domains and products. Designed and built an insights experience platform that delivers critical insight data to customers and seamlessly integrates with different SurveyMonkey products. Proposed a unique technical architecture and built the serving solution and frontend from scratch.
- Improving and maintaining internal ML services. Migrated all of our ML models and services (30+) onto OpenTelemetry as part of a company wide initiative to improve application monitoring. Researched capabilities of utilising OpenTelemetry for model performance and metrics and presented to wider team.

  Technologies: Python, Pyramid, Docker, SQL, Airflow, Linux, AWS, Splunk, Typescript, Github Actions, nx, React, GraphQL.

Software Engineer - International Growth   *Aug 13th 2018 - Aug 31st 2021*

- Working as a key contributor in a high functioning growth team, liaising closely with product managers, designers and data analysts to enhance the SurveyMonkey product.
- Developing full-stack customer facing in product features using React & Python, touching multiple microservices. Consistently monitoring new feature rollout using A/B tests to gain insights & metrics.
- Maintaining and improving our internal A/B testing service used by multiple development teams across the company. Co-owner of the SurveyMonkey ads service used to promote features and advertise product updates.
- Technical lead on various projects, writing tech specs and helping provide the technical direction to facilitate new requirements for experimentation. Writing unit tests and providing code reviews across multiple repositories.
- Conducted many interviews for different software engineer roles for the payments & growth teams.

  Technologies: Javascript, React, Python, Pyramid, GraphQL, Docker, Jinja, Microservices, Webpack, pytest, SQL, AWS, kafka, ansible, redis, memcached.

Ex Ordo   3 Atlanta House, 36 Dominick St Lower, Galway

Software Engineer   *Jun 1st 2016 - Jul 17th 2018*

- Built new features, improved existing features both front-end and back-end. Desiged systems and owned projects from concept to completion. Pushed commits daily; hot-fixed critical issues; thoroughly tested code.
- Managed releases through Alpha/Beta testing, ensured our product was of highest possible quality. Worked effectively with the customer support team; answered questions & resolved issues across all platforms.

  Technologies: Padrino, Ruby, ActiveRecord, SCSS, HAML, Javascript, Backbone.js, Git, MySQL.

Software Engineer - Internship   *May 1st 2015 - Sep 1st 2015*

- Developed various internal tools to help customer support to manage operations, merge duplicate user accounts and setup test conference instances with fake data. Built features to automate manual work for conference organisers, including a duplicate paper finder and a ready-to-print timetable export tool.

EDUCATION

National University of Ireland, Galway   Galway, Ireland

BE in Electronic and Computer Engineering; **1st Class Honours** (83/100)   *Sep 1st 2012 – Oct 16th 2016*

Notable Modules: Digital Signal Processing, Real Time Systems, Machine Learning & Data Mining, System on Chip Design, Telecommunications Software Applications, Software Engineering, Project Management, Communications & Signal Processing Applications, Distributed Systems, Programming, Digital Systems, Signals & Communications, Analogue Systems Design, Engineering Statistics, Microprocessor Systems Engineering, Database Systems, Mathematics & Applied Mathematics, Electrical Circuits & Systems.

Yeats College, Galway   Galway, Ireland
Achieved maximum score in state examinations: **625 points** with 8 As.   *Sep 1st 2010 – Jun 1st 2012*

Awards

ON Semiconductor Electronics Scholarship: Awarded to three final year students nationally each year. *Sep 2015.*

University Scholar: Awarded title 'University Scholar' based on third year results. *Sep 2015.*

Excellence scholarship: Awarded university entrance scholarship based on Leaving Certificate results. *Oct 2012.*

Projects

Final Year Project: *To design a GPS-based autonomous system for wheelchair users*

Technologies Used: Android, Java, Google Maps API, Python, RFCOMM, UDP, Bluetooth, OpenCV, Control Systems, Kalman Filtering, Feature Detection and Optical Flow tracking.

3rd Year Project: *EngSoc Student Card Scanner*

Skills and Interests

Strong Technical Knowledge:: Python, Javascript, Ruby, Java, React, Pyramid, Padrino, Webpack, HTML, CSS, MySQL, Active Record, Android, Docker, GraphQL, pytest, Jest, Git.

Interests: Machine Learning, Data Science, Web & Mobile Development, System Design, Databases, Electronics, Computer Vision.