

## CONTACT

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## PROFILE

Todd Lomas is a full stack software engineer with 1 Years experience in software development and 3 years total industry experience at early to mid stage tech startups. Loves collaborating on projects with colleagues, using logic and engineering to solve real business problems and having a chance to get creative when called for. In spare time plays high level hockey and loves to cook.

## EDUCATION

UNIVERSITY OF READING, UK – BSC MATHEMATICS (2:1), 2019

## EXPERIENCE

JUNIOR SOFTWARE ENGINEER, **QUALIS FLOW** – 2021-2022

1. Worked full stack on internal and external facing web applications, updating and testing existing features and developing new features e2e following agile methodologies.
2. Responsibilities:
  - ❖ Develop and document new features for web portals (internal admin web app and client facing data presentation web app). Followed TDD and OOP.
  - ❖ Work with wider development team (10 people) to implement solutions bought by product team and C-suite. Communicated with sales and external facing teams, translating customer requirements into trackable tasks with Azure DevOps.
  - ❖ Created, updated and maintained unit, integration and system tests. Handled deployment on Azure Cloud services, using Git for source control.
3. **Tech stack:** Javascript, React, HTML/CSS, Python, Typescript, C# .Net, (Git, Azure)

DATA SCIENTIST, **QUALIS FLOW** – 2019-2021

1. Worked for construction tech startup Qualis Flow, on creating pieces of data analysis, experimental data science/machine learning projects and text recognition, OCR and NLP problems in a team of 3.
2. Responsibilities:
  - ❖ Utilised Azure OCR to automate manual data entry, decreasing admin time from 5-10 minutes per 'record' to less than a minute.
  - ❖ Designed and built solutions to gather data from the web (e.g., webscraping using Selenium, webcrawling using ScraPy)
  - ❖ Developed product prototypes using machine learning (e.g., combining NLP with OCR to extract meaningful information from text)
  - ❖ Collaborated with the engineering team to create end-to-end solutions based on machine learning (e.g., word classification using NLP)
  - ❖ Communicating insight from data to the product management team (e.g., create clear dashboards using PowerBI, MixPanel)
3. **Tech stack:** Python, (TensorFlow, NumPy, SciPy, Pandas, Matplotlib, Keras, SciKit-Learn, PyTorch), PowerBi

INTERN, **SENSAT** – 2019

Worked alongside the Director, meeting with consultants and construction risk analysts. Helped provide insight into where the company should be heading and connecting with other industry professionals to build the Sensat network.

## NOTABLE PROJECTS / TRAINING

- ❖ Redesigned company admin portal, from creating new REST API endpoints on the backend (C#) to visual redesign of frontend (JS, React). Presented to stakeholders and held sole responsibility e2e. Led to critical time savings which resulted in back track on decision to hire more data entry staff.
- ❖ 'Web Developer Bootcamp' (Udemy). Topics covered: HTML5, CSS, JS, AJAX, Bootstrap, NodeJS, ExpressJS, REST, SQL / NoSQL, MongoDB, Authentication, Security, Maps and Geocoding.
- ❖ 'React - The Complete Guide' (Udemy). Topics covered: Hooks, React Router, Redux.
- ❖ 'The Modern Python 3 Bootcamp' (Udemy). Topics covered: Python!
- ❖ Builds:
  - ❖ 'Netflix Clone' - built a Netflix frontend using React.js with full Sign-In/Sign-up authentication flow through Google firebase and a functioning payments system with Stripe. Check it out: [Netflix](#)
  - ❖ 'Airbnb Clone' - built an Airbnb frontend using Next.js & React.js with date & calendar functionality, Server-Side Rendering & Client-Side Rendering, mapping with mapbox and customisation with Tailwind.css. Check it out: [Airbnb](#)
  - ❖ Personal Portfolio Site - built a personal site using Next.js & React.js with Framer Motion, Tailwind CSS and using headless CMS sanity.io for content management. Check it out: [Portfolio](#)
  - ❖ 'News App' - built a real time news app that fetches articles using media stack API and presents in UI built with Typescript, React & Next.js 13. Simple app that uses Dynamic data (SSR) and Static data (ISR), Stepzen integration to power GraphQL interface which queries API. [News App](#)