

Luke Cheung

Software Engineer

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London, UK

Passionate software engineer with over 4 years of experience including full-stack web development, FPGA embedded systems and machine learning and AI

Career summary

Applications Engineer - Medidata Solutions

2022 – Present

- Built a core application for managing clinical trial sites by overhauling the user experience and creating a scalable and maintainable code base using TypeScript, React and Node
- Architected and developed a custom word editor-style template creation page for creating reports and letters by collaborating with tech leads during refinement and development stages of the project
- Communicated closely with QA and product teams to define features by participating in refinement and discovery meetings
- Empowered the entire frontend developer department by leading community standards meetings and experimenting with Github Actions and Sonarqube to improve workflows

FPGA Software Engineer (Intern) - Intel Corporation

2020 – 2021

- Ported a NIOS2 4K video app to an ARM Linux environment using C/C++ focusing on computational efficiency to accommodate the limited resources available on an FPGA
- Improved Video and Visual Processing IP core module development by producing Bit Accurate Software Models that improved workflow efficiency and reduced downtime
- Created and configured SystemC test bench models resulting in robust code measures

Backend Developer - PrineSec

2019 – 2020

- Wrote a research paper comparing multiple machine learning algorithms for use in malicious server log detection
- Implemented the isolation forest anomaly detection algorithm in a Python prototype for early vulnerability detection in servers

Applications Engineer (Intern) - Medidata Solutions

2019 – 2019

- Spearheaded the adoption of the Cypress test framework by implementing it into an existing project and completely eliminating flaky feature tests

Projects

Full Stack Social Media Web Application - JavaScript/Scala

Machine Learning Snake using NEAT - JavaScript

Technical skills

Languages	JavaScript, TypeScript, C/C++, Python, Java, Scala, SQL
Technologies	React, Node, ExpressJS, Cypress, Jest, Redux, MongoDB, Git, Bash

Education

Royal Holloway University of London

2022

B.Sc. Computer Science (1st Class Honours)