ALEXANDER JAMES HOLYOAKE

Email: alex@alexholvoake.com Address: Iroon Polytechniou 2 Date of Birth: 07/08/1985 Tel: +30 6973174936 Lefkada, Greece Nationality: British GitHub: ajholyoake Relevant Experience 2020 - 2023Head of Site Reliability Engineering at Blockchain.com Infrastructure Architect; Project management; Managed team of 15 2019 - 2020Site Reliability Engineer at Blockchain.com Hyper-scalable infrastructure maintenance; self-service; systems architecture 2018 - 2019Backend Trading engineer at Blockchain.com Trading system maintenance in Kotlin; multi-venue execution; portfolio management 2017 - 2018Data Scientist at Stratagem Technologies Data Scientist modelling basketball games and designing trading strategies; regression; backtesting; trading infrastructure; order routing; market making 2014 - 2016Race Strategist at Mercedes F1 Team Data science & engineering; full-stack developer; web UI development for easy deployment; rapid, high-pressure decision making 2012 - 2014Performance Analyst at Caterham F1 Data science; Lead developer 2007 - 2011Experimental Ph.D. in Applied Mathematics Data analysis; Bash, Matlab, C++, C experience to automate data collection; PIV; First-authored paper; Public speaking; Hardware Engineering 2009 - 2011Formula Student CAD; Design; Website; Team Management; Simulation; Sponsor Liaison 2005 - 2010Gentoo Used as main system including all packages compiled from source, kernel maintenance etc. **EDUCATION** 2013 - 2015Various Machine Learning Courses Coursera, Cambridge Coding Academy workshop, Cranfield Operational Research 2007 - 2011Ph.D. in Granular Dynamics Department of Applied Mathematics and Theoretical Physics & Trinity College, University of Cambridge 2006 - 2007Master's Degree in Mathematics Trinity College, Cambridge 2005 - 2007Certificate and Diploma in Modern Greek Trinity College, Cambridge; scholarship

for exceptional performance; Heilbronn Prize

14 GCSEs 11 A* including English and German

6 A levels and 1 AS level all grade A

First Class B.A. (Hons) in Mathematics Trinity College, Cambridge; scholarship

Sixth Term Examination Papers 2 and 3 (Grade S - outstanding)

2003 - 2006

2002 - 2003

2001 - 2003

1996 - 2001

TECHNOLOGY

Salt Expert

Hashistack Expert; Vault, Nomad, Consul, Consul Connect

GCP Expert; Maintained full eco-system with 0-touch by de-

velopers

Python Expert; systems programming, machine learning, ex-

tensive data analysis

Matlab + MEX (C Extensions) Expert; data processing, image processing, calibration

routines and non-linear PDE solver (finite volume and

spectral)

HTML, CSS, Javascript Proficient; experience with Express, templating en-

gines, REST interfaces

C{,++} (Linux and Windows) Proficient; data acquisition and inner-loop Matlab rou-

tines

SQL Proficient; MS-SQL, Postgres, MySQL, SQLLite

.NET Expert; core track data processing library, implementa-

tions of mathematical algorithms for use in other com-

ponents

Java Beginner; basic Android development, Computational

Fluid Dynamics post-processing routines

Go Beginner; hobby projects to play with concurrency fea-

 ${\rm tures}$

Office Suite & VBA Proficient
BASH Proficient
LATEX Proficient

Operating systems Excellent knowledge of using and administrating Linux

systems (Gentoo and Ubuntu) and Windows; also pro-

ficient with OSX (genuine and hackintosh)

Public Projects

Embedded GPS Logger

github.com/ajholyoake/adaloggergps

Intranet Coffee Store

github.com/ajholyoake/coffee

Online GPS Tracker

 $github.com/ajholyoake/spot_tracker$

Graph Theory Animation

github.com/ajholyoake/percolator

Home Automation

Embedded C project to log GPS data on a Pi Zero to an SD card to study velocity, acceleration and altitude

data for a dirt bike expedition

Node.js, Express, HTML, IIS bootstrap project to cen-

tralize coffee ordering and to compile metrics

Python (Flask), Javascript, HTML page to update fam-

ily and friends of location via a satellite tracker

Javascript, HTML single page for illustrating the con-

cept of percolation in graph theory

Developing software to Raspberry Pi and The Next Chip for lighting, audio and data logging while home-

brewing

OTHER SKILLS AND INTERESTS

Physical Hacking Complete renovation and construction of a house; welding; car main-

tenance; barbeque design and manufacture; growing vegetables; home-

brewing

Languages Greek (degree level), German (intermediate), Spanish (intermediate)

Driving Full driving licence (inc. motorcycles)