Tom Curtis

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github.com/dinotash

Objective: Seeking software engineering position to further develop my technical skills and make use of the experience in solving novel and highly complex problems I developed through six years of forensic accounting investigations.

Sample software projects – see www.dinotash.com for more details

Ticket To Ride
Interactive visualization of British railway schedules. Imports data from custom 400MB file format into database, shows train locations in real-time and allows browsing of timetables.
OS X desktop app written in Swift and using Apple's CoreData and MapKit frameworks.

OpenCorporates
Wrote and maintained 20 bots over two years to scrape data about companies from regulators' websites each month for use in leading open data project. Each bot traverses a particular website and transforms details of companies into specified JSON schema for export into database.
Python scripts using BeautifulSoup library for DOM manipulation

@SpoonerismBot
Twitter word-play bot that replies with a spoonerized version of any message you send it. It first attempts to generate spoonerisms using a phonetic dictionary derived from Apple's text-to-speech API in OS X. As a fallback, it also generates spoonerisms by swapping letters in text.
Python program using Twitter API, OAuth and NSSpeechSynthesizer, on a Raspberry Pi Linux box.

Routemaster
Graph-based visualization of London bus network allowing user to highlight routes passing through each of 19,000 bus stops. Parses route and geographical data provided by transport authority.
Web app written in ProcessingJS (originally a desktop app written in Processing/Java)

Zen Gardener
Browser-based game written as entry for week-long game jam, based on use of mouse to clean up randomly-generated environment.
Web app written in Javascript/JQuery

Journey Planner
Generates SVG version of London Underground map from JSON data. Allows interactive route finding across several lines of railway network using graph search.
Web app written in Javascript and using RaphaelJS for SVG DOM manipulation.

Google Foobar
Completed 15 incrementally difficult programming challenges in Python, covering combinatorics, graphs, data structures and algorithms. Only 4% of entrants finish the game.

Education

Chartered Accountant **Institute of Chartered Accountants in England and Wales** 2010 – 2013
- Passed all 15 exams first time despite not having prior background in business or accounting.

MSc Philosophy **University of Edinburgh, United Kingdom** 2009 – 2010
- Won publicly-funded scholarship covering all fees and expenses.
- Focused on philosophy of mind, artificial intelligence and cognitive science, semantics and decision theory.

MA (Hons) Philosophy **University of Edinburgh, United Kingdom** 2004 – 2008
- Graduated with first-class honors from global top-20 university.
- Earned top grade in class for formal logic, covering semantics and proofs in propositional and predicate logic.
- Won prizes for coursework in philosophy, astrophysics and Swedish.

Work experience

Manager, StoneTurn Group LLP, San Francisco 2016
Manager, KPMG LLP, London 2010 – 2015
- Investigated complex fraud and financial crime matters for clients across a range of industries and countries, such as exchange rate rigging, accounting misstatements at public companies and litigation between Russian oligarchs.
- Translated ambiguous client issues into problems that can be solved efficiently.
- Managed teams of up to six people, including planning tasks, setting goals and ensuring quality standards.
- Demonstrated strong analytical skills, including identifying, testing and documenting assumptions.
- Maintained strong team work under pressured conditions with demanding clients and changing requirements.