Glenn Searby, Software Engineer

2/28 Waters Road, Neutral Bay Junction, NSW 2089, Australia

glenn.searby@gmail.com
www.github.com/GlennS/
M: 0435 623 867

Experience 12 years professional experience as a software engineer

Education MSc Computer Science & BA History

Availability not currently seeking employment

Main languages Python — Java — JavaScript — C# — SQL

Other languages R — sh/bash/zsh — Powershell — Clojure — C — BASIC

Specializations databases — geographic information systems — data analysis & visualization

Fields worked in energy retail — energy policy & modelling — healthcare

Client interaction requirements gathering — training — support

Octopus Energy 2020 onwards

Octopus Energy are an international energy retailer with a focus on ethics and sustainability. They also license their software platform to other energy companies — `https://www.octopus.energy/`.

I'm adapting their Kraken platform to the Australian energy market. *Python; Django; Postgres;*

Cammy 2018–2020

Cammy make smart camera hubs which use machine learning to identify people and notify the owner appropriately — `https://www.cammy.com/`.

Hub Manager APIs for automation of hubs and cameras. *Python; OpenAPI; Postgres;*

Admin Panel website to drive Hub Manager APIs. *JavaScript; ReactJS*

Deployment automated high-availability deployment to Amazon Web Services. *Terraform*

GoScript 2018

GoScript were a small startup building a standardized automation platform and marketplace for *Internet of Things (IoT)* devices.

Authentication extended GoScript authentication, allowing users to grant access to trusted partner companies. *OAuth 2.0*

Public API built and documented. *JavaScript; PostgreSQL; React*

Deployment automated deployment processes; consolidated configuration into central location. *Docker; Jenkins*

I stayed at GoScript for two months before moving to a position at Cammy, a related company backed by the same investor.

Centre for Sustainable Energy 2012–2018

CSE is a non-profit organisation focused on helping vulnerable people to heat their homes more efficiently — `https://www.cse.org.uk/`

I worked in the research team developing software for a variety of clients and projects.

UK National Household Model (NHM) designed and built (alongside two other developers) a simulator to model the effects of policy on the UK's housing stock. *Java*

Glenn Searby, Software Engineer
2/28 Waters Road, Neutral Bay Junction, NSW 2089, Australia
glenn.searby@gmail.com
www.github.com/GlennS/
M: 0435 623 867

NHM Support provided scenario development support, training, bug fixes and upgrades. Clients include: British, Scottish and Welsh Governments, and the UK Climate Change Committee.

English National Heatmap maintenance and upgrades. Added water-source heat layers and UTFGrid based hit detection. *JavaScript; PostGIS; PHP*

THERMOS built a user interface for a heat network recommendation model. Also created the website layout. *Clojure; ClojureScript; PostGIS; Spatialite*
`https://www.thermos-project.eu/`

STEEP Stakeholder Engagement Platform created a web-based mapping tool, a process-modelling tool, and some Mediawiki extensions. *JavaScript; Leaflet JS; d3.js; ElasticSearch; PHP*
`https://tools.smartsteep.eu/` (try clicking 'New Map' or 'New Process Model')

Vulnerability web mapping created interactive web maps with filterable histograms. This web application is used by electricity network operators to find areas with vulnerable customers. *JavaScript; Leaflet JS; d3.js; Python; Spatialiate; GDAL*

Programming support provided general assistance to analysts within CSE. *R; Python; Git*

First aider and fire marshall since 2014 — trained by St. John's Ambulance.

Online Learning 2011–2012

Completed a number of university-level (but non-accredited) online classes to further my computer science education.

Circuits and Electronics MITx *98%*

Functional Programming Principles in Scala Coursera (Polytechnique Federale de Lausanne) *100%*

Introduction to Artificial Intelligence Peter Norvig & Sebastian Thrun *100%*

Programming A Robotic Car Udacity *100%*

Machine Learning Coursera (Stanford) *100%*

Game Theory Coursera (Stanford) *95.7/100*

Cryptography Coursera (Stanford) *183/183*

Bluewire Technologies 2009–2011

Bluewire make electronic patrient records software for hospitals — `https://www.epro.com/`

Epro general development work and support on Bluewire's flagship product: a patient records system. *C#; JavaScript; SQL Server*

Reporting module create interactive web reports using SSRS. Worked with hospital pharmacists to create custom reports to assist them in tracking prescriptions of controlled drugs. *SQL Server Reporting Services (SSRS)*

Deployment responsible for installs and upgrades on customer servers. Automated the deployment process, substantially reducing the downtime during which hospitals were not able to view their records. *Powershell*

Microsoft Certification made Epro compatible with Windows Server 2008 and SQL Server 2008. Took it through the Microsoft Certification process - an important selling point for hospitals in the UK.

Glenn Searby, Software Engineer
2/28 Waters Road, Neutral Bay Junction, NSW 2089, Australia
glenn.searby@gmail.com
www.github.com/GlennS/
M: 0435 623 867

Automated database migration wrote a tool to automate database schema migrations. This linked versions of the database schema to the software's version control. *MS SQL Server; Powershell*

Documentation authoring created a desktop application which enabled customers to author and publish their own help documents within our system. *C#; WPF*

System integration built mechanisms for interoperability with other hospital systems and databases. Had to use a variety of means including SOAP messaging, web services, and bulk import from flat files. *C#; HL7*

University of Bristol 2004–2008

MSc. Computer Science Distinction 2007–2008

BA History Upper Second 2004–2007

IT Tutor taught a workshop *IT for Historians*: computer skills for first-year students 2005–2006.

Royal Grammar School, High Wycombe

A-levels Maths (A), Further Maths (B), Physics (A), Modern History (B)

GCSEs 6 A* and 6 A grades