















Todd Langford-Archer

- Full stack Makers Academy graduate with military background and experience delivering technology in highly regulated commercial environments. Passionate programmer who uses TDD and Agile methodologies with careful prioritisation. Instinctive problem solver with a natural flare for engineering solutions using a wide range of tools and quickly becoming fluent in new technologies.
- Currently interviewing for full stack software engineer roles in the finance and cyber security industries












Projects




















Problem	Solution	Tech
Twitter Clone Week 7 at Makers Academy the weekend challenge was to build a Twitter clone web app configured with an API backend provided. Solo - 1 weekend	Chitter Built a single page app using React and Bootstrap which connected to the API backend with fetch calls.	  
Facebook Clone Week 8-9 at Makers Academy the engineering challenge was to make a Facebook clone. Team - 2 weeks	AceBook Stars Working in a team of 5 we delivered the week one specification using Rails MVC format. In week two we refactored the code into a React frontend and a Rails API backend.	  
Makers Final Project Weeks 15-16 at Makers Academy challenge to build an application for showcasing our learning during the 16 week course. Team - 2 weeks	Makers Rich Collaborated with 5 engineers to develop an educational multiplayer realtime Role Player Game. Built with Google Firebase to enable realtime multiplayer interaction via web sockets. Deployed Site 	   
Childcare Policy Management Childcare business that mandated every employee must read all procedural and health and safety policies annually. The management found that policy administration in this highly regulated environment was a time consuming process and they wanted to invest in an application to save this time. Solo - 3 weeks	Policy Portal Delivered a web app that provided managers with the ability to write and publish policies online. The nursery assistants could read the policies via their user account and if required take a quiz as proof of understanding. This saved several hours of management time each year.	  

To be directed to the Github code repository click



Skills

Skill	Usage / Experience
Python 	Deployed full stack web applications built with Django as well as experienced building backend API's using the Django Rest Framework.  
Javascript 	Designed and built multiple greenfield asynchronous frontend applications using React. Fluent at writing encapsulated class, functional based or higher order components focusing on efficient lifecycles managing state and props. Proficient at dealing with application state using Redux with careful selection of actions and reducers. Experience with webpack and babel build bundles. TDD with Jest unit testing and Cypress integration testing.       

Skill	Usage / Experience
Ruby 	Experienced building web applications using Ruby on Rails with ActiveRecord as an ORM. Built greenfield API's as well as refactored existing web applications into API backends with React frontends. Experienced with a number of authentication methodologies including OAuth and JWT.  
SQL 	Capable designer of database schema and managing migrations using Postgres, MySQL and Sqlite3. Experienced in engineering inexpensive database calls.   
HTML & CSS  	Literate in writing plain HTML with CSS and uses libraries such as bootstrap to save time. Confident employing JSX when writing React applications.  
Microsoft VBA	8 years experience developing applications using MS Access and financial models using MS Excel.  
Test Driven Development	During the 4 months at Makers Academy, received coaching on how to TDD with each assignment being completed using this methodology. Constructs deployment pipelines using continuous integration incorporating test coverage restrictions and pre deployment testing with tools such as Travis CI and heroku.  
Agile Collaboration	A military background providing a strong team player who enjoys working collaboratively whilst being comfortable working individually off his own initiative. Often takes a leading role during collaborative projects using Git and Github Projects as tool of choice, however experienced with Jira and other PM tools. Appreciates stringent code review and a watertight deployment process.   
Java 	Primary understanding of Java and currently increasing knowledge base with a Udemy course in Java.

Employment

2018 Brookfield Childcare

- Business expansion manager for family run childcare business.
- Increased the business revenue by 50% in 12 months.
- Responsibilities included:
 - Software development of staff policy management application built using Django.
 - Built the [website](#)
 - Facilitated Incorporation of Partnership into Limited company.
 - Construction project management with build cost totalling £400k acquired £250k Business Mortgage. Sourced government capital grant totalling £125k.
 - Accountancy and HR systems review and upgrade to become GDPR compliant.

2017 Brewin Dolphin

- Employed as Assistant Investment Manager.
- Built tools for portfolio management and new business management.
- Client facing responsible for the production of portfolio proposals, reviews and valuations.

2016-17 Wellesley Group

- Employed as a Project Manager on the Peer to Peer lending platform development team.
- Designed, built and maintained a Loans Amortisation and Administration platform currently being used by a team of 20 to manage a £300m asset backed loan book.
- Adopted an agile development methodology accompanied by Jira project management software.
- Additional roles included monitoring contract performance of outsourced key business functions by third parties:
 - Software development contract £50,000 pcm

- Hosted cloud provider contract £10,000 pcm

2014 [Alchiba Logistics, Ghana](#)

- Employed as Operations Manager for a logistics company in Ghana the primary service of which was bulk commodity haulage turning over \$400k pcm.
- Constructed a database using Microsoft Access to administer the business and capture data for KPI reporting and invoicing.
- Managed a team of thirty staff as well as a fleet of vehicles. In addition to this, designed and organised the development and construction of the company's base and workshops.
- Responsibilities also included researching and producing financial models for potential ventures in alternative industries within the region.

2011-13 [Strutt & Parker, Chelsea](#)

- Youngest Sales Negotiator employed selling properties up to £2m in prime Central London.
- Tasked with increasing market share of low-mid market sales in the Chelsea and South Kensington area which was achieved by a factor of two.

Education

Organisation	Achievements
Makers Academy 2018	Pass 16 week immersive software engineering course in London Languages: Javascript, Ruby Practices: TDD, Pair programming, Agile, Working collaboratively, XP
Codecademy 2017-18	125 Badges - 7 Courses Courses: SQL, Command Line, Python, Ruby, Javascript, React, Java
Udemy 2017-2018	Courses <ul style="list-style-type: none"> • Python & Django - 198 Lectures - 32 hours (Jose Portilla) • React with Redux - 188 Lectures - 36 hours (Andrew Mead) • Node.js - 135 Lectures - 27 hours (Andrew Mead) • Machine Learning - 91 Lectures - 12 Hours (Frank Kane) • Javacsript - 164 Lectures - 64 Hours (Jonas Schmedtmann) • Java - 361 Lectures - 77 Hours (Tim Buchalka)
Royal Military Academy Sandhurst 2015	Highest Tier Recruited as an Officer Cadet by the British Army to commission into the Queen's Dragoon Guards. Trained in management, leadership and command to be tactically and operationally responsible for an infantry platoon of thirty personnel. Conducted in-depth academic study with attention to international relations, war studies and behavioural sciences. Ranked in the highest tier of cadets in the company. After developing a severe allergic reaction to wasp venom whilst on exercise a medical review board was forced to downgrade me to operationally undeployable.
Shrewbsbury School 2004-09	GCSE: A x 6, B x 3, C x 1 A Level: Chemistry B, Biology B, Physics C Company Sergeant Major for Royal Marines Cadets J14 Rowing Octuple National Champions Awarded a place at Manchester University to study Biomedical Materials Science but instead chose to further ambitions of becoming an Army Officer.

Interests

Hobbies

- App Building
- Cycling - [Tower to Tower Challenge](#) for the Alex Wilson Appeal
- Sailing - Skipper Qualified

- Classical Piano - [this](#) kind of thing

³ Charity

- 2018 - Save Mortimer Forest
 - Committee Board Member - Head of social media and built the website
 - Community appeal to stop a proposed development of 70 holiday lodges in Mortimer Forest in Shropshire which would have been detrimental to the local ecosystem.
 - Successfully stopped the development
- 2017 - Sierra260
 - Co-organiser and built the [website](#)
 - Extreme endurance expedition completed by 14 friends running 260 miles across Sierra Leone in 10 days
 - [Raised £120k](#) for Mind and Street Child
 - Me on BBC radio Shropshire interview [link](#)
- 2010 - Cricket With Andrew Flintoff
 - Committee Board Member for celebrity charity cricket match
 - Charity cricket match and auction in Shropshire
 - Raised £60k for the Help for Heroes charity



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