

Clarx Nick Clark

Software Engineer

I am a software engineer looking for work solving problems with code - my main game is JavaScript/TypeScript and Python with a bit of .NET. My background in education and other experience gives me an edge in understanding and solving problems with software!

In a former iteration I ran a legal education not-for-profit teaching kids about the rule of law, making submissions to government and doing legal research and dev in between.

Current dev projects/goals:

- hand-writing recognition and transcription web app
- containerising my Angular/Express/Database dev workflow
- learning NestJS
- consolidating Python
- dabbling with .NET Core

FEATURED PROJECTS + STACKS I ❤️

SERVERLESS WEB APPS



Angular and Firebase for serverless, modular, component based web apps using the power of TypeScript to write extensible, strongly typed apps with well planned data models. Material Design and SCSS to build responsive templates and RxJS to handle state, async data from APIs with GCP Cloud Build, Cryptography, Cloud Functions and Databases for building, testing and deployment.

NODE TERMINAL APP



NodeJs app written in TypeScript using RxJS to implement a functional and reactive style application which consumes markdown converts it to HTML and applies CSS styles with Pandoc and uses the Handlebars templating engine to interpolate then render metadata, text, and generate contents pages before being converted to PDF using Puppeteer.

OTHER TOOLS / LANGUAGES I USE



InDesign, Illustrator, Photoshop, Bootstrap, Vim Text Editor, Visual Studio Code, JetBrains WebStorm, Hugo Static Website Generator, Git, CircleCI, and Python.

WORK

SOFTWARE ENGINEER
Jan 2020 to April 2020

LEAP DEV

Dev work on legal accounting features on a large and complex Angular application, upgrading to Angular 9, designing testing suites with Cypress, revising schemas, implementation and reporting of Google Analytics, Electron/Angular application build process, IPC and UX.

ACADEMIC / COMPLIANCE
MANAGER

June 2018 to Dec 2019

CODER ACADEMY

Teaching fullstack web application development including web design, databases and cloud application architecture, developing and teaching cyber security bootcamp course using Python, Javascript and cloud services.

FREELANCE WEB APP
DEVELOPER

July 2017 to present

SELF EMPLOYED

Developing web applications such as booking and membership systems, events listings with a CMS, and LMS web apps.

CEO / EDUCATION DIRECTOR
April 2012 to June 2017

RULE OF LAW INSTITUTE OF AUSTRALIA

In-house dev projects + managing the programs and day-to-day business of the Institute.

QUALIFICATIONS

DIPLOMA OF SOFTWARE
DEVELOPMENT
2014

SYDNEY INSTITUTE OF TAFE, PETERSHAM

Full-stack web development in C# and other .NET Microsoft technologies, as well as Javascript, CSS and HTML.

CERTIFICATE IV IN
TRAINING AND
ASSESSMENT
2011

SYDNEY INSTITUTE OF TAFE, PETERSHAM

Achieved competency in 2011. Worked on VET assessments for Diploma of Software Development for Coder Academy in 2018 - 2019. Commenced study for Diploma of Training and Assessment, due for completion in May 2020.

BACHELOR OF ARTS
(HONS) / BACHELOR OF
EDUCATION (HONS)
2009

THE UNIVERSITY OF SYDNEY

Majors: History, English Literature with Honours in History. Thesis on Australian medical history. Teaching areas: English, 7-10 History, HSC Modern History and English as a Second Language. Honours via coursework.

DEVELOPMENT PROJECTS

- designed, implemented and iterated on an excursion **booking system** for the Rule of Law Institute using Angular, Bootstrap, Firebase database, cloud functions, and .NET tech.
 - a **scraper** to collect the entire Commonwealth statute book and information from other government websites and devised a system and method to categorise and annotate the scraped data using C# and .NET technologies
 - **Events listing website** for History Week 2017 and 2018 for the History Council of NSW using Angular and Bootstrap
 - **Membership database** for History Council of NSW using Angular, Material Design, Firebase Firestore, Cloud Functions and Authentication
 - **Website** for St Vincent's College, Potts Point for the 160th Anniversary of the school using Angular and Bootstrap
 - a number of **WordPress websites** for organisations, with **integration of Stripe**, providing assistance to clients with migrating **databases**, and streamlining processes and designing forms for public facing applications
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HISTORY, ACCOMPLISHMENTS AND OTHER PROJECTS

- traveled widely within Australia delivering legal education programs for schools in regional areas and capital cities
 - taught Year 11 and 12 Legal Studies, Society and Culture, Modern History, English Studies and Software Design and Development at Bradfield Senior College 2009-2012 and in 2018
 - designed, developed and project managed an exhibition that was displayed in the High Court of Australia in Canberra which included a replica of a medieval document, interactive website and physical exhibition installation
 - drafted formal submissions to government and grant applications
 - managed small teams of creatives and researchers to produce websites, print materials, and education resources
 - spoken at conferences and authored papers for professional teacher association journals
 - developed compliance and assessment documentation for Vocational Education and Training (VET) courses and developed course materials for Higher Education and VET
 - developed digital and print education materials such as posters, handouts, interactive websites, and edited articles for publication
 - chaired and managed events such as conferences, panel discussions, and exhibitions
 - conducted legal research for lawyers and former judges to contribute to published works and edited collections
 - developed strategic plans, budgets, and grant applications
 - Worked as an Operations Assistant in the Operating Theatres of a major public hospital in Sydney for six years while I was studying
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