# Antoine LUCAS

✉ antoine.lucas.australia@gmail.com  in/antoinelucas1  https://cv.datapond.earth

## SUMMARY

I am a passionate application engineer interested in functional design, performance optimization, Database design and server side technologies.

I am looking for team lead opportunities.

My latest tech interests are: GoLang, Geospatial, Offline first techs.

## EXPERIENCE

### DataPond Engineer
**DataPond**                                                        **January 2022 – August 2023, Remote**
· DataPond presents an offline library with over 8000 books on the theme of sustainability that are common creatives, or copyleft
· The original data is downloaded once from the perma-web – which is a 250 years storage guaranteed
· Using Typescript/Vue, I build from scratch a novel custom database.
· By design, network latency is near zero when running the datastore on the user's local device

### Software Engineer
**Netfira**                                        **April 2021 – October 2021, Sydney, New South Wales, Australia**

### Principal engineer – R&D in signal processing
**Independent Business Logic Pty**        **May 2017 – April 2021, May 2017 – Apr 2021 · 4 yrs**
· Co-founder of a computer assisted pattern recognition engine. The aim is to detect in real time patterns from time series using polynomial regression with statistical analysis.
· Signal processing and timeseries tick live granularity signal processing
· Large dataset processing and algorithmic complexity optimization
· Custom AWS clustered design and costs optimization, saving thousands of $ into operation costs

### Senior Technical Consultant
**Deloitte Digital**                                        **February 2020 – June 2020, Canberra, Australia**

### Frontend Engineer And Business Analyst
**Tibra Capital**                                        **November 2019 – February 2020, Sydney, Australia**

### Senior Frontend Engineer
**Fairfax Media**                                        **October 2017 – June 2018, Sydney, Australia**
· Innovated the custom publishing platform to allow all journalists to design and manage hundreds of newspapers content online ( Web & paper ).
· First contractor to ever be allowed to work remotely
· Modifying the original production Angular.js 1 while helping with the React current development

### Senior React/redux Consultant
**Squiz**                                        **February 2017 – August 2017, Canberra, Australia**
· Part of a large team working on a custom professional CMS from scratch
· Main competitors being Adobe AEM, Site core and Facebook for business
· I helped design some key components of the portal using React under functional design rules.

### Three.js Geospatial mapping engineer
**Geoscience Australia**                                **November 2016 – February 2017, Région de Canberra, Australie**
· I (solo) designed and implemented a 3D visualisation of subsurface structures
· Innovative UX to to represent a simple vision of 3D topography – bathymetry, sub surface and rock properties – water layers including borehole locations
· While being new within the 3D technology stack and the advanced mapping world, I delivered that product in 3 months instead of the six months originally planned
· I also helped the 2D team to optimize their build process to add live-reload capabilities and on the fly compilation while reducing the compilation time by 80%

### Senior A11Y Engineer
**Marcel Publicis**                                        **March 2016 – July 2016, Région de Sydney, Australie**
· Following accessibility Oz reports,we fixed many A11Y bugs for an existing codebase to assess and implement accessibility for the Commonwealth Olympic Games 2018.
· As a site rescue (the previous team was all gone) – We met the strict deadline just in time

### Senior Frontend Engineer
**Bupa Australia & New Zealand**                                **November 2015 – February 2016, Sydney, Australia**
· I created from scratch a new website addressing issues about the first 2 years following child birth for parents and friends – based on a sketch specification.

### Senior Full stack CRM Engineer
**BoomWork – Sydney Water**                                          **August 2015 – September 2015,  Parramata**
· Sydney Water needed a fast AngularJS coder to help meet a private client MVP deadline.
· The product is an industry game changer – which speeds up the processing of complex water connection applications.

### Senior FrontEnd Engineer
**Bauer Media Australia**                                          **June 2015 – August 2015,  Région de Sydney, Australie**
· Integrated Bauer innovative Fluxible based custom framework with ReactJS and continuous delivery workflow.
· It was one of the React.js precursor project – being part of an innovative team of 5 engineer, we managed to finish the project on time – despite the breaking new technology.

### R&D / CRM Engineer
**Veritas Engineering**                                          **December 2013 – February 2015,  Région de Perth, Australie**
· Online police checks planning, architecture & implementation
· Custom CRM design, architecture & implementation
· Web Services development and integration with the CRIMTRAC API
· UX Design & user engagement optimization
· Analytics & SEO Consulting

### Lead Engineer
**ExpatJob Group**                                          **June 2010 – May 2013,  Région de Perth, Australie**
· JQUERY based mail client with ACL linked to a custom CRM.
· Ten years of electronic correspondence was imported from a domino legacy system to this new CRM
· 3 Linux dedicated server setup strategy with backup server (MySQL replication & rsync)
· Main root Linux System administrator
· SOAP and REST integration with different Job Feeds providers such as JobG8, Monster, JobRapido and JobAdder to cite a few
· XML job feeds
· Creation of an organized and consistent multi-level location database from several sources
· Optimized Full Text search with ultra-fast grouping and count
· Maintenance and implementation of Google DFP

### LAMP Developer
**Digital Ventures**                                          **November 2009 – April 2010,  Perth, Australia**
· The project was a clone of Ali Baba
· I mainly wrote a curl crawler engine, a search engine and an admin interface using PHP, Curl and MySQL

### Science Teacher
**French school of Sudan**                                          **September 2007 – June 2008,  Khartoum**
· Taught Maths, Physics and Biology to high school students from diplomatic backgrounds

### Freelance
**1001NET**                                          **April 2005 – April 2006,  Montpellier Area, France**
· Various freelance jobs for ad-hoc clients.

---

## PROJECTS

### NgServer – Angular.js Server
October 2016 – Present
· A node.js project to pre- render javascript Web application Javascript to HTML .
· A server side rendering and caching engine that proxies and caches any external calls to dependencies into Redis
· Nobody really uses it – since it was made before most modern framework support server side rendering.

### Redis Url Cache
October 2016 – Present
· A library that caches 1000s URL content inside Redis data-store
· Custom config support with regex definition and caching sharing between domains
· Can be used to implement a custom DNS caching service

---

## EDUCATION

### bachelor degree, computing
University of Montpellier · 2001

### graduation, Geotechnic
Polytech Grenoble · 2000

### BS, Maths – Physics – Chinistry
Arago Lycee · 1998

### Bachelor of Engineering (BE)
Stanislas · 1995

---

## CERTIFICATIONS

### Triplebyte Certified Front End Engineer

Triplebyte · 2020

## COURSEWORK

### bachelor of Computer science

## INVOLVEMENT

### IT fixer

Ester houses · February 2010 – Present

## SKILLS

**Industry Knowledge:** Web Services, Software Development, Web Applications, Social Media, Database Design, Web Marketing, Software Documentation, Web Development, Machine Learning, Agile Methodologies, MVC, Server Architecture, Google API, AJAX Frameworks, DoubleClick for Publishers, LAMP administration, RESTful architecture, JSON-RPC, Facebook API

**Tools & Technologies:** JavaScript, AngularJS, PHP 5, Apache, Advanced CSS, Linux, Google Analytics, Debian, scss, OAuth, PostgreSQL, Amazon Web Services (AWS), Node.js, MongoDB, React.js, Relational Databases, Vue, Three.js

**Interpersonal Skills:** Team Leadership, Skilled Multi-tasker

**Languages:** English, French