

LUCILLE ABLETT

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JavaScript • React & Redux • HTML/CSS • GraphQL • Node.js • Python • PostgreSQL

Software Engineer with experience in the design and development of full-stack web solutions following Agile methodologies. I take pride in my work and ship high-quality, well-tested code to create a bug-free user experience. I am a quick learner, motivated by my love of problem-solving and my desire to understand how and why things work. My curiosity has led me to take an active and ongoing role in my own personal development, and I am continually enhancing my skills and studying new languages, frameworks, and technologies. I am seeking London-based or remote software engineering opportunities with an innovative and purpose-driven tech for good company. My ideal role is with a small and collaborative team with the potential for rapid career growth.

Professional Experience

Software Engineer **60 Decibels Inc.** **April 2020 - present**

- Deploying robust, well-tested, and scalable code across the technical stack following **Agile** development processes and using **Codeship** for **CI/CD**.
- Developing client and server-side functionality of web applications using **React**, **Redux**, and **Next.js**.
- Development of API using **Node.js**, **Prisma**, and **GraphQL**.
- Creation of scheduled jobs for handling ETL processes in **Python** using **SQLAlchemy** and **Docker**.
- Writing unit, integration, and e2e tests across the stack using **Jest**, **Enzyme**, **EasyGraphQL**, and **unittest**.
- Collaborative feature development through daily code reviews and pair programming.
- Product and feature planning and ticket writing, including specifying acceptance criteria, prioritising, estimating story points, and discussing implementation details.
- Monitoring live system status via alerts and logging using **Sentry** and **LogDNA**.
- Mentoring colleagues and sharing knowledge across the company through feature documentation, workshops, and company-wide product demos.

Additional tools: **Git/GitFlow**, **Auth0**, **Intercom**, **AWS S3**, **Heroku**, **GoDaddy**, **Mailchimp**.

Data Scientist **Anglo American** **May 2018 – September 2019**

- Development of machine learning models to extract value from technical data using Python 3.
- Collaboration with internal clients to identify and solve business use cases.

Mine Geologist **First Quantum Minerals Ltd, Zambia** **July 2013 – June 2016**

- Capture, validation, management, 3D modelling, interpretation, and reporting of all geoscience data.
- Collaborative design and creation of SQL mineralogical database for Sentinel Mine, Zambia.
- Coding of macros using a proprietary scripting language for geological software.
- Mentoring of graduate geologists, and training and supervision of sample collection teams.
- Leadership of geological and geophysical development projects.

Additional Technical Projects

- Smart Brain [ReactJS application](#) with [Node.js backend](#) implementing Clarifai computer vision API, using Express.js, bcrypt-nodejs, knex.js, PostgreSQL, [deployed on Heroku](#).
- [Location-based quiz](#) Android application, using a three-tier web architecture, comprising web (HTML/CSS, JavaScript, PHP), mobile (Java), and PostgreSQL geodatabase components.
- [Restaurant billing management system](#) using Java, with JavaFX and SceneBuilder.
- Creation of GIS analysis algorithm module using object-orientated Python.
- Design and development of spatially-enabled, PostGIS, 3D mineral exploration drill tracking database.

Qualifications

MSc Spatio-Temporal Analytics and Big Data Mining University College London¹ 2016 – 2017

Distinction *Awarded the Hart Prize for the most distinguished work*

Tech Stack: R, Java, Python, JavaScript, HTML/CSS, PHP, PostgreSQL, PostGIS, NoSQL.

MSc Project: Machine Learning for Mineral Prospectivity Mapping (77%)

In collaboration with the British Geological Survey

Comparison study of support vector regression, random forest, and extreme gradient boosted tree machine learning algorithms for regression modelling and geospatial mapping of hydrothermal mineralisation in SW England, using R.

Relevant modules: Introductory Programming (63%), Web & Mobile GIS: Apps and Programming (92%), Spatial Databases (82%), Spatio-Temporal Data Mining (76%), GIS Principles & Technology (85%).

MGeol (Hons) Geology with Geophysics University of Leicester² 2009 – 2013

Awarded Upper Second-Class Honours (2:1)

Volunteering Experience

Cat Care Volunteer Cats Protection May 2019 – present

- Supporting staff with feeding and socialising cats, cleaning accommodation, and maintaining a safe and hygienic environment within the cattery.
- Training and mentoring new volunteers.

Organiser Mining Sundowner January 2019 – April 2020

- Scheduling and hosting sponsored monthly networking drinks for the mining and metals industry.
- Liaising with industry contacts to obtain sponsorship and communicating details to subscribers.
- Development and administration of website and mailing list.

Interests

Cooking, paper crafts, sewing and dressmaking, reading science fiction books, logic and 3D puzzle games, and exploring the countryside.

¹ Student Academic Representative, Department of Civil, Environmental, and Geomatic Engineering (2016 – 2017)

² Events Secretary, Society of Exploration Geophysicists, University of Leicester Student Chapter (2011 – 2012)