

# James Hinton

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## BACKGROUND

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With nearly four years of rich, professional experience, I've engaged with a range of projects across various companies. This has granted me a multi-company perspective and a deep, diverse skill set within a compact timeframe. As a Full Stack Developer, I specialise in Python (Django) and Javascript (React), among other technologies, constantly expanding my expertise to deliver innovative solutions.

## EXPERIENCE

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- **Spatial Days** Reading, England  
*Notable companies / projects I have been sub-contracted to:* *June 2020 - Present*
  - **Satellite Applications Catapult:** Employed for three years as a principal developer for the £9.6 million IPP CommonSensing project. In this role, I leveraged Python, JavaScript, and open-source technologies to enhance climate resilience in the Pacific Islands via satellite technology. My tasks encompassed deploying applications with Helm in Kubernetes settings, creating custom software, and adapting open-source applications.
  - **Ordnance Survey:** Specialised in enhancing and customising open-source Spatio-Temporal Asset Catalog (STAC) software for Ordnance Survey's geo-spatial assets, with a focus on working with Rasters and point cloud data using tools like GDAL, Rasterio, and PDAL. For the frontend, I utilised Leaflet for mapping and served Cloud Optimized GeoTIFFs (COGs) through TiTiler. The entire system was deployed using Kubernetes, Terraform, and Azure.
  - **Yemen Economic Tracking Initiative:** As the leading contributor to the YETI platform's GitHub repository, I enhanced economic analysis tools for Yemen, supported by key international organisations. My expertise in Django, JQuery, HTML, CSS, and AWS formed the backbone of our web modules and data systems.
  - **UK Centre for Ecology and Hydrology:** Currently upgrading the City Explorer Toolkit from an MVP (written in R-Shiny) to a more stable, robust build, leveraging Azure, React, and Django. This redevelopment aims to enhance the tool's functionality in guiding urban planners to strategically allocate green and blue spaces, using comprehensive environmental and demographic data.
  - **Whoovr:** Sole Software Developer for a company information web service and API for Ergo Digital Ltd. Work involved detailed design, AWS infrastructure setup/configuration, Python Flask back-end application development and front-end Javascript, JQuery, HTML, CSS and Jinja2 development.
  - **Requiem:** Software Developer for the build of the Requiem Cemetery Management System. Work involved requirements definition, user story documentation, logical and physical database design, AWS system architecture design and build, back-end development using Python Flask / SQLAlchemy and front-end development using Bootstrap and Javascript.
- **S3-Sales** Wiltshire, England  
*Recruitment and sales training firm* *December 2019 - May 2020*
  - **Sales Executive:** Before I lead a career in the technology industry, I wanted to acquire the transferable experience that a sales role can give. I found the role enjoyable and believe it has provided me with a broad range of soft skills.

## PERSONAL PROJECTS

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- **Mandarin Translator:** Mandarin Chinese translation tool with a React interface, incorporating an API for translations, a database for converting Chinese characters to Pinyin, and an S3 bucket for storing MP3s that were concatenated to form sentences for the user to listen to and practice with.
- **Ecosystem Game:** C# Unity script project focused on simulating an 3D ecosystem where animals have a thirst / hunger component, reproduce and survive based on their ability to find food and water sources.
- **Deep Learning Music Prediction:** Programmed classification and regression neural networks capable of advanced music prediction including valid, novel techniques in regard to the representation of music through intervals

<https://github.com/james-hinton>

## EDUCATION

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- **Cardiff University** Cardiff, Wales  
*Master of Science in Computing; Distinction ( 73.5 )* *Sep. 2018 – Oct. 2019*
- **University of the West of England** Bristol, England  
*Bachelor of Arts in Business (Team Entrepreneurship); Upper 2:1* *Sep. 2014 – July. 2018*

## PROGRAMMING SKILLS

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- **Languages:** : Javascript, Python, C#
  - React, Django, Flask, FastAPI, Typescript, Redis, Tailwind, Vite, SCSS, Node, Postgres, Docker, Kubernetes, Terraform, AWS, Azure, QGIS, HTML5, CSS3, Linux, Git

## HOBBIES AND INTERESTS

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- **Guitar:** I am a dedicated guitar player from a young age, delivering numerous performances with a band over a span of 3 years. This includes winning in a local battle of the bands and participating in various festivals.
- **Chess:** I actively participate in online chess tournaments and maintain an online ELO rating of 1500.
- **Rugby:** Avid enthusiast of rugby, having attended three grand-slam matches.
- **Mandarin:** I have a passion for learning Mandarin and have pursued it for over a year, reaching approximately HSK2/3 level without formal assessment. I enjoy conversing with both friends and strangers.
- **CTF:** Engaged in Capture The Flag challenges, I use containerised Docker images for local penetration testing and partake in online exercises.
- **AI/ML:** With my RTX3060, I delve into experimenting with public AI models both professionally and out of personal interest.
- **T.A.G.B:** Black belt (1st Dan) in Tae-Kwon Do Association of Great Britain