

# Calvin Chun Hin Bochyński-Ng PhD BEng

Software Engineer - Web Developer

## Summary

Eager and enthusiastic software engineer with a focus on building a better accessible digital experience for all users. PhD in Electronic Engineering with 5 years of industrial experience in RF Antenna Engineering.

## Experience

### Freelancer

NOV 2023 - PRESENT | London, United Kingdom

- Full-stack website development for companies, focusing on user experience enhancement.
- Expertise in React, Vite (front-end) and Node.js (back-end).
- Implemented CRUD databases for efficient data management.

### Senior Antenna Engineer | Leonardo UK

AUG 2023 - NOV 2023 | Luton, United Kingdom

- Developed MATLAB and Python scripts to automate the design and optimisation of antenna profiles
- Recognized with an award for Technology and Innovation

### Microwave and Antenna Engineer | Meta Material Inc

JUN 2022 - JUL 2023 | London

- Leveraged MATLAB for data manipulations and graph generation for visualisation.
- Implementing Python scripts for real-time graphs during bio-tech trials.
- Lead and manage various antenna design projects

### Senior Antenna RF Design Engineer | Airbus

SEPT 2018 - JUN 2022 | Stevenage, Hertfordshire

- Developed MATLAB and Python scripts to streamline processes
- Held responsibility for the transmit antenna on a satellite platform

### RF Design Engineer | Omni-ID

APR 2018 - SEPT 2018 | Farnham, Surrey

- Understanding RFID both in Hardware and Software
- Designed and develop commercially-ready RFID Tag for plant trolleys.

## Projects

### Portfolio

FEB 2024

- Developed responsive website using Next.js and Tailwind CSS.
- Incorporated tparticles for dynamic background movement.

### Mapplar

JAN - FEB 2024 | CAPSTONE

- Integrated Mapbox for precise itineraries with OpenAI prompts.
- Employed Firebase for cloud storage and JWT token for secure user authentication.

### Acabo

JAN 2024 | HACKATHON Industrial project (Deliveroo) - 5 PERSON (24 Hours)

- Balanced between UX/UI and software engineering.
- Made critical design decisions within strict deadlines.
- Utilized JIRA for task assignment and managed Pull Requests for workflow cohesion.

### Debug Ducky

JAN 2024 | HACKATHON Pair Programming - 2 PERSON (24 Hours)

- Managed back-end operations, developing RESTful endpoints with Express.
- Used Postman to verify outcomes and validate against sample inputs.

### Star Wars Yearbook

NOV 2023 | HACKATHON - 2 PERSON (5 Hours)

- Managed web application styling with optimal fonts and BEM naming conventions.

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## Skills

### Programming Languages

JavaScript, TypeScript, HTML, CSS, Sass, SQL, MATLAB, Python, C

### Libraries and Frameworks

React, Vite, Next.js, Node.js, Express, Tailwind CSS, Mapbox, Firebase, OpenAI, Material UI, Next UI

### Tools and Design

Bash, Terminal, Git & GitHub, Heroku, Netlify, Chrome Dev Tools, Postman, Jira, MySQL, Figma, XD, InDesign, Illustrator, Photoshop, After Effect, Premier Pro

## Education

### Diploma - Software Engineer | BrainStation

NOV 2023 - FEB 2024 | London

- Learning industry best practices throughout the course to become a proficient software developer.
- Developing foundational skills in web development, progressing from basic multi-page web design to advanced Single Page Application development using React.
- Back-end development with technologies such as Node.js and Express, effectively setting up frameworks and utilising MySQL databases for seamless data management and persistence.

### Doctor of Philosophy - Electronic Engineering | University of Kent

SEPT 2014 - JUL 2019 | Canterbury, Kent

- "Applications of Origami Folding Techniques of Antenna Structures using Flexible Substrates"

### Bachelor of Engineering - Electronic and Communications Engineering | University of Kent

SEPT 2011 - JUL 2014 | Canterbury, Kent

## Hobbies

Badminton, Cycling, Volleyball, Boulderling, Web Design, Picture and Video editing, Gaming