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Summary

- A proactive professional with a strong sense of ownership and a passion for solving engineering challenges. Experienced in developing projects from scratch, I contribute effectively to every stage of the development process. Currently specializing in full-stack web development with substantial experience in TypeScript, React/Native, Docker, automation in Bash and Python, Linux, AWS, C++ and Rust.

Work Experience

- **Ruuby** Sofia, Bulgaria | London, UK
  Full Stack Web Developer *Aug 2024 – Feb 2025*
  - Built responsive interfaces for web and mobile using React and React Native, styling with Styled Components, MUI, and Tailwind CSS.
  - Developed GraphQL resolvers and integrated data sources – SQL, DynamoDB, Elasticsearch.
  - Worked with and implemented AWS micro-services in order to extend our cloud functionality.
  - Worked with a vast AWS stack including ElasticSearch, Cloudwatch, EC2, SNS, EventBridge.

- **Royal Surrey NHS Foundation Trust** Guildford, UK
  Computer Scientist *Aug 2023 – Aug 2024*
  - Led a project to anonymize and collect data from dental clinics across the UK, including on-site visits and installations of a custom file processing software written in python.
  - Led the development of an HL7 pseudonymization library and implemented it in projects to handle sensitive patient data in communication flows.
  - Served as a frontend developer and DevOps engineer on the National Breast Imaging Academy project. Worked on creating UI components and led an effort to integrate multiple services into a unified workflow.

- **Melon** Sofia, Bulgaria | London, UK
  Backend Engineer *Sep 2021 – Nov 2022*
  - First of two collaborative periods with Ruuby: while at Melon, I contributed as a full-stack web developer to Ruuby's projects, complementing my later direct role with the client.

- **PhiAcademy** Guildford, UK
  Full Stack Web Developer *Jun 2021 – Sep 2021*
  - Solely responsible for all technical aspects, employing Next (React), NodeJS, Express, and MongoDB to build the platform's MVP.
  - MVP included creating and implementing a responsive and animated web design, a meeting scheduler, a whiteboard integration and a custom built peer-to-peer conferencing system.
  - Did Search Engine Optimizations with Server Side Rendered Next.

Projects

- **PixPox**: A 2D pixel game engine, written in Rust, that simulates physics using cellular automata interactions, featuring seamless multi-threading, while also providing complete runtime safety.

- **Hangman in ARMv6 Assembly**: Developed the classic word game entirely in ARMv6 assembly.

- **Virtual MMU**: A first-year University project for the module 'Operating Systems'. A non-contiguous, segmented memory manager for a virtually simulated MMU, mimicking actual hardware and OS behavior. Written in Java using OOP concepts.

Education

- **University of Surrey** Guildford, UK
  BSc in Computer Science *2020 – 2023*
  - Focused on Web Development, Computer Networking, Operating Systems, Algorithms and Data Structures, Software Engineering, and Machine Learning (PyTorch & Tensorflow).
  - Developed web projects including Tenabl—a web app and browser extension for sharing article opinions and public sentiment statistics.
  - Designed, trained, and deployed language models for chatbot applications, tailoring architectures to specific use cases.

- **Софийска Математическа Гимназия** Sofia, Bulgaria
  High School of Mathematics *2012 – 2020*
  - Improved math and logic skills at Bulgaria's leading public school for Mathematics.
  - Participated in additional mathematics and programming courses beyond the standard curriculum.
  - Took part in academic mathematics competitions and actively engaged in competitive swimming and running events.

- **Cambridge English: Advanced (CAE)** – C1, Score: 198 (2020)