

Aidan Pick

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in Aidan Pick

Education

Imperial College London	Oct 2023 - Jul 2027
MEng Computing - (Integrated Master's)	
<ul style="list-style-type: none">Predicted First Class Honours (Overall Grade: 80.51%)Relevant Coursework: Algorithms, Software Engineering Design, Operating Systems, Compilers, Networks, Databases	

Technical Skills

Languages: Python, Java, C, Scala, Kotlin, Typescript/Javascript, SQL, Haskell, Bash
Technologies: React Native, Spring Boot, PostgreSQL, Git, CI/CD, Kafka, Supabase, Gradle, Maven, Linux
Developer Tools: GDB, QEMU, Expo, Trello, Arduino IDE, Neovim, Tmux

Work Experience

Konnexsion - Software Engineering Intern	Sep 2025 - Oct 2025
<ul style="list-style-type: none">Built a data migration tool for DynamoDB in Python migrating data from development to production environmentsDesigned rule-based filtering system to selectively migrate bots and modules while dropping transient dataImplemented a fail-safe dry-run mode to prevent accidental data writes and log migration impact before executionAutomated 3-step migration workflow into a single inline command, reducing manual data migration time by hours	

Projects

Decision Tree Classifier for WiFi Localization Python, NumPy, Matplotlib, Machine Learning	Oct 2024 - Nov 2024
<ul style="list-style-type: none">Implemented a decision tree classifier from scratch using entropy-based information gain for WiFi signal localizationOptimised split computation with prefix sum arrays, reducing complexity and runtime for large feature spacesBuilt a custom tree visualisation tool with proportional leaf spacing and colour-coded classifications for analysisDesigned a k-fold cross-validation system to evaluate model performance, computing precision, recall, and F1 scores	
SEVA TypeScript, JavaScript, Supabase, PostgreSQL, React Native, CI/CD, Gitlab Pages, Expo	May 2025 - Jun 2025
<ul style="list-style-type: none">Built a cross-platform mobile app in a team to connect volunteers with charities using React Native and SupabaseAutomated deployment using GitLab CI/CD, building APK releases with Gradle and hosting them on GitLab PagesConducted interviews with charity coordinators and volunteers, narrowing down on pain points to improve UXDelivered a live demo and UX walkthrough to industry aligned judges, achieving 88% for engineering depth and clarity	
WACC Compiler CI/CD, Scala, x86-64 Assembly, Parsley (Parser-combinator library)	Jan 2025 - Mar 2025
<ul style="list-style-type: none">Architected a fully functional compiler for a C-like language (WACC) in Scala from scratch in a team of fourDeveloped a modular frontend using Parsley for syntax analysis and top-down type checking for semantic validationEngineered backend to translate Typed AST to x86-64, managing stack memory, registers and runtime error handlingImproved efficiency by introducing constant folding, constant propagation, and control flow optimisations	

Certifications & Leadership

JPMorgan Software Engineering Job Simulation on Forage	Aug 2025
<ul style="list-style-type: none">Developed a Spring Boot microservice to handle financial data streams, processing events with Kafka and integrating external REST APIsExposed custom REST endpoints for data retrieval and implemented data persistence using Java Persistence API (JPA) with a H2 in-memory database	
Imperial College Jailbreak Winner	Jun 2024
<ul style="list-style-type: none">Co-led a team to victory in a university-wide competition, traveling the furthest distance from campus in 36 hours with no money, demonstrating resourcefulness and strategic planning	
InvestIN Education - Engineering summer Experience	Aug 2022
<ul style="list-style-type: none">Secured 1st place in a team-based engineering contest for designing and building the most innovative and cost-effective obstacle-avoiding robot	

Extracurricular

<ul style="list-style-type: none">Jazz drummer; performances include Royal Albert Hall for Camden Youth Jazz Orchestra and Imperial Big BandAwarded music scholarship	<ul style="list-style-type: none">Ranked 3rd in U19 Butterfly National School Team Table Tennis ChampionshipImperial College 2nd Team Squash
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