

# Dylan Hamersztein

## Java Developer

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### Dylan Hamerztein

Diente de León Ltd.

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### Skills

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Problem solver with an ability to learn and implement new practices quickly. Capable of working as part of a larger team, but also accepting of responsibility to complete projects in more independent settings.

Primarily interested in object-oriented programming; JVM languages; writing robust, efficient, and performant code; and algorithm design.

Comfortable using Kotlin, Java, JUnit, Mockito, Rx, Spring, Bash, JavaScript, TypeScript, Angular, React, Node, NPM, Yarn, Git, Docker, Gradle, Maven, Jenkins, and Linux-based operating systems.

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### Experience

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#### 10x Banking / Java Developer

June 2021 -October 2022, LONDON

Working on expanding and maintaining a set of microservices responsible for storing customer data and making it available at later points through restful HTTP endpoints or Kafka topics. Ensuring that our services are reliable and robust in order to not disrupt the customer onboarding journey.

Responsibilities include:

- Maintaining legacy APIs used by clients.
- Designing and implementing new APIs.
- Out of hours support.
- Improving code quality by addressing technical debt.

Projects worked on include:

- Designing and implementing an idempotency library to be used in-house.
- Migrating our services from CockroachDB to AuroraDB.
- Working across teams to prototype and release new APIs for client POCs.
- Implementing guards against Kafka poison pills in our services.

Technologies used:

- Kotlin/Java
- Spring Boot
- Kafka
- CockroachDB
- AuroraDB

## **CMC Markets / Java Developer**

February 2020 - June 2021, LONDON

Working as part of the Java Core Services team with the aim of supporting customer use of the trading platform. During this time I have moved more towards being a full-stack developer, as my work frequently required changes to various Angular/React applications maintained by the team.

Projects worked on include:

- Integrating with an external provider of PRIIPs financial analysis data so that the in-house Risk team can more easily update price change figures displayed to clients through the trading platform.
- Overhauling the process by which customers sign up to the trading platform by redesigning the backend handling of customer applications, and creating an application form management tool by which the business can manage, and configure the data displayed on application forms.
- Integrating with an external provider of Address and Identity Verification services so that the business can increase the number of successful customer applications to the platform.
- Maintaining and improving the payments system used by clients to deposit and withdraw trading account funds.
- Various changes to administration tools used by non-technical employees to manage and configure services relevant to their work.

## **Caplin Systems Ltd. / Junior Software Developer**

October 2018 - February 2020, LONDON

My main responsibility as a junior back-end developer was to integrate Caplin's out-of-the-box solutions with externally developed trading platforms on client-sponsored projects.

This regularly involved learning new 3rd-party APIs and mapping them to our own, accounting for the performance of those 3rd-party systems in our efforts to produce smooth applications, and often interfacing directly with the developers of those APIs to request specific improvements.

## **Caplin Systems Ltd. / Graduate Software Developer**

October 2017 - October 2018, LONDON

I took part in Caplin's graduate scheme, involving 2-month rotations around teams within the company. In my rotations I ensured to join a variety of front-end, back-end, and dev-ops teams with a view to widen my knowledge of the Caplin stack as quickly as possible.

At the end of the scheme I decided to focus my efforts on becoming a back-end developer, as I felt this method of programming most closely aligned with my interests.

## **Centrica Plc. / Service Design Intern**

June 2016 - August 2016, STAINES

Working as a Summer Placement employee in British Gas's Service Design team, involved in assignments related to Information Systems. My project involved analysing and documenting system access rights for new, moving, and leaving employees with a view to find deficiencies and offer ways to fix them.

I was also involved in a data visualisation project which involved creating user friendly interfaces to display data relating to server access by both clients and members of staff.

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## **Education**

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### **University of Nottingham / MSc Computer Science (Distinction)**

September 2016 - September 2017, NOTTINGHAM

Modules Taken:

- Mobile Device Programming (Android)
- Linear and Discrete Optimisation
- Fuzzy Logic and Fuzzy Systems
- Advanced Computer Networks
- Game Design Theory

For my thesis I explored the role of a chatbot as an assistant to first year students in their daily lives.

I built a simple web-based chatbot which could scrape information from several University web-pages to provide information relating to bus schedules, contact information and office hours for lecturers, library computer availability, and campus shop opening times.

### **University of Leicester / BSc Computing (2:1)**

September 2013 - July 2016, LEICESTER

Key Modules Taken:

- Internet Computing and Web Technologies
- Multimedia and Computer Graphics
- Operating Systems, Networking, and Distributed Systems
- Communication and Concurrency
- Analysis and Design of Algorithms
- Cryptography and Information Security

In my dissertation I was tasked with creating an algorithm which could solve levels of a 'Candy Crush'-like game while maximising the player score.

After creating my own clone of the game in Java, I used dynamic programming to reduce the NP-Hard problem of solving a Candy Crush board to a series of smaller subproblems which were solved in tractable time.

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## Extra-Curricular

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### Hanoar Hatzioni / Youth Leader

2013 - 2015

Volunteering as a group leader on summer camps aiming to provide informal Jewish education for children between the ages of 8 and 16.

### Languages Spoken

English (native), Spanish (native), Hebrew (fluent).