



# BARNABÁS LŐRINCZ

## SOFTWARE ENGINEER

### WORK EXPERIENCE

#### SOFTWARE ENGINEER • Adevinta CMH Kft. • Budapest, Aug 2020 - Dec 2021

At Adevinta Hungary, I was a front-end engineer developing Hungary's leading second-hand online marketplace, Jofogas.hu. I worked in a cross-functional team responsible for ad insertion and payment related features, while also taking part in product-wide technological improvements. We functioned according to the SCRUM framework and collaborated with other teams as well to handle dependencies. The key highlights of my role were:

- Daily code reviews with team members
- Planning and implementing new features in the ad insertion process such as
  - allowing users to save unfinished ads and continue them later
  - using ML data to categorize ads based on their title
- Migrating the homepage from AngularJS to React
- Writing and supervising unit and E2E tests
- Building landing pages
- Handling consent and tag management platforms on the site
- Running and analyzing A/B tests on new features
- Collaborating with the marketing team on in-app call to actions and popups

#### SOFTWARE ENGINEER • Applion Computer Kft. • Budapest, Jun 2018 - Aug 2020

At Applion Computer Kft. I was a member of the software engineering team, responsible for the development of the company's own SaaS called Appworks. With the help of this product, small and mid-sized businesses could computerize and automate their workflow for improved efficiency.

My work included:

- Managing front-end development
- Helping out with back-end development
- Handling task distribution for optimal results

### IT SKILLS

#### FRONT END

**AngularJS (JavaScript)** • At Adevinta, the main framework for front-end development was AngularJS. Use cases ranged from form validation and data binding to building complex layouts by creating reusable components.

**Angular (TypeScript)** • Angular was the chosen framework both at Applion and for my thesis. Starting from version 2 up until version 11, I used a wide array of tools provided by the framework, such as dependency injection and directives. I also learned and used the relevant TypeScript syntax and language features.

**React, NextJS (JSX)** • I gained most of my experience in React rewriting the Jofogas.hu homepage. I got to know and used key features such as state management and prop handling. To boost our SEO performance and user experience, I worked with NextJS for server side rendering and static site generation. I also have some Redux experience thanks to a course I picked up at University.

**Styling and design systems (SCSS, TailwindCSS, Storybook)** • For my Angular and AngularJS projects I used the Sass preprocessor along with the BEM methodology to achieve light and scalable stylesheets.

For the homepage migration in React, we used TailwindCSS along with a design system kept in Storybook for easy and reusable component creation.

**Tag and consent management** • During my time at Adevinta we introduced a new consent management platform called Didomi. Switching to this provider allowed me to learn about cookie and GDPR compliance from a technology perspective. As for tag management, I worked with Tealium IQ, which was a great opportunity to dive deep in script load timing and user event tracking with multiple tags injected using this framework.

**Unit and E2E testing (Jest, WDIO, Selenium)** • At Adevinta, for our React projects we aimed for a high percentage of code coverage and therefore wrote a sizeable amount of unit tests that allowed me to familiarize myself with mocking modules and components in Jest.

We also used the WDIO framework built on Selenium WebDriver for E2E testing. We wrote tests for every core function of the Jofogas product to monitor the site's health and usability.

#### BACK END

**Java (Spring Boot)** • I used Spring Boot at Applion to develop a REST API for our product and also for my thesis project. I am familiar with JWT authentication, permission handling and used Hibernate for CRUD operations.

**SQL (PostgreSQL)** • I worked with PostgreSQL at Applion and also chose it as a database management system for my thesis. I am familiar with the most common SQL commands and functions as well as writing queries with medium complexity.

**Database version control (Liquibase)** • Having used Liquibase for my thesis project, I gained some useful insights on database version control for schema creation and modifications.

#### MOBILE

**Flutter and iOS** • During my bus schedule side-project I familiarized myself with the basics of the Flutter framework and Dart language. In the native iOS version, I also learnt about iOS development fundamentals, such as layouts, TableViews, CoreData.

#### OTHER LANGUAGES

**Python, C++, Haskell** • I use python on a regular basis to automate simple tasks or to speed up processing larger amounts of data. At the university I took a course in C++ and Haskell as well.

#### ISSUE TRACKING AND VERSION CONTROL

**Git and JIRA** • For all my projects I used Git for version control. I have experience with both Github and Bitbucket for repository hosting and code reviews. In a professional setting JIRA was the issue tracking system that we used for creating and managing tasks at my previous jobs.

### INTRODUCTION

I am a medior front-end developer with 3 years of experience. I enjoy working in a team to solve problems or build on existing solutions. I am continuously looking for opportunities to improve my current coding abilities while also learning new programming languages and methodologies. I highly appreciate feedback as I believe it is key for self-improvement.

My aim is to work on projects that solve real world issues and have a positive impact on the everyday life of users.

### EDUCATION

#### Computer Science BSc

ELTE Faculty of Informatics, 2016-2021

### LANGUAGES

**English** • Level C1 ECL Language Exam

**German** • Basic written and spoken language skills

### SOFT SKILLS

During my professional career I was a member of cross-functional teams and got to know people with different ways of working, which was helpful to develop my own working style.

Due to the wide variety of technologies used at my previous jobs, I also had to learn and understand things fast and often by myself.

While software development has always been my main job, my roles also included managing smaller projects from planning to implementation. These projects allowed me to improve my communication skills by clarifying and solving problems in the team and also with clients. They also provided me with the opportunity to work on my time and task management skills in order to get everything done by the deadline.

### SIDE PROJECTS

#### FLEETSONIC

My thesis at the university was planning, developing and documenting a car fleet management service, which enables companies to record journeys, events and expenses for each vehicle in their possession. Here, I had to implement both the front-end and back-end side of the application.

A live demo and the source code are available on my website.

#### BUS SCHEDULE SZÉKESFEHÉRVÁR

In my free time I had two attempts to create a user friendly bus schedule app for my hometown:

- An iOS version, which was never released, but was very useful for learning the core concepts of the Swift language.

- A cross-platform version in Flutter, which is available in the Play Store for showcase purposes.

Source codes for these projects and links to demos are available on my website.

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