

# George Al Bampoul

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## PROFESSIONAL SUMMARY

Full Stack Engineer with 4 years of experience specializing in **React, Next.js, and Node.js** ecosystems. Developed large-scale public-sector platforms including a skills taxonomy portal for the Saudi Government and a national business registry in Greece.

## EXPERIENCE

### Frontend Software Engineer | Skilllab B.V.

November 2024 – Present

- Collaborated in a four-person agile team to build a **Next.js Public Taxonomy Portal** for the Saudi Government, providing a national framework for mapping skills and occupations
- Engineered a **React**-based Skill Survey application used by subject matter experts to collect and validate data on occupational skill requirements

### Full Stack Engineer | Knowledge S.A.

November 2023 – October 2024

- Refactored Greece's **Business Services Portal** by migrating the legacy **Grails** frontend to **React** and converting the existing monolith into a **RESTful API**.
- Implemented complex state management and data fetching using **Tanstack Query, Material UI, react-hook-form** and **React-Router** to create a dynamic, responsive user interface.
- Developed and maintained comprehensive end-to-end (e2e) test suites using **Playwright** to automate regression testing and ensure application stability.
- Produced comprehensive **end-to-end (e2e) tests** for various usage scenarios of the application, leveraging **Playwright** to automate testing processes.

### Private | Greek Army

November 2022 – August 2023

- Designed and developed a robust network infrastructure using **Windows Server 2019**, integrating its **Active Directory** system to establish a cohesive user management framework thereby increasing managerial efficiency.
- Set up and optimized a dedicated email server, improving communication for superiors.

### Full Stack Engineer | Knowledge S.A.

March 2021 – November 2022

- Led the frontend development for the **GEMI Publicity** project, the national search engine for companies registered with the Greek Ministry of Commerce
- Optimized data retrieval performance, reducing latency from **3–5 seconds to 100ms** by integrating **ElasticSearch** for full-text search and **Redis** for distributed caching.

## EDUCATION

### Integrated Masters in Computer Engineering and Informatics | University of Patras

October 2017 – November 2022

- Graduated with a GPA of 7.84/10.00, in my program's 5-year nominal duration.
- Gained a deep understanding of the field and enriched my problem-solving capabilities
- Carried out my Master's thesis, titled "Developing Defenses Against Data Poisoning Attacks on Federated Learning"

## PROJECTS

### Rapid Rentals | NextJS / TailwindCSS / MongoDB / NextAuth

Demo | Code

- This project is a small **SPA** I developed to reinforce and apply web development fundamentals. Key features include **SSR, authentication** integration with Google and Github, downloading as a **PWA**, robust **search functionalities**, implementation of **3D rendering** using car models, and code-driven **animations**. It also has been deployed using Vercel.

### Readers Cove | NextJS / Material UI / MongoDB

Demo | Code

- Readers Cove is a website developed as an assignment for the E-Commerce subject of my university. The assignment was to build a simple e-shop for a **bookstore** with the caveat that it would use state-of-the-art methods to **recommend** books. Methods used included **collaborative-filtering** and **content-based filtering** based on user and **user reviews clustering**

### Tinderclone | React Native / TailwindCSS / Firebase / Figma

Code

- This is a cross-platform **mobile application** which served as my first comprehensive exploration into mobile development. It was first designed in Figma and later constructed with React Native, leveraging Expo, Nativewind, and Firebase as integral components. Noteworthy aspects include Google **authentication**, user-matching functionality, and real-time **instant messaging**.

## TECHNICAL SKILLS

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**Languages** :JavaScript, TypeScript, HTML, CSS, Python, C/C++, SQL (Postgres, MS-SQL, MySQL), NoSQL (MongoDB, Firebase)

**Frameworks** :React, React Native, Next.js, Bootstrap, TailwindCSS, Node.js, Flask

**DevOps and API Tools** : Git, Github, Jira, Confluence, Docker, Postman, Azure, CI/CD

**Others** : Data Modeling, Agile (Scrum/Kanban), SOLID, Design Patterns, Debugging

## LANGUAGES

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**English** : ECPE C2 Full Working Proficiency

**Greek** : Native Proficiency