

ALBERTO SCHIABEL

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Alberto Schiabel (@jkomyno) is a Software Engineer living in Milan (Italy) who sold his first software 7 years ago. He has worked in several product and consulting software companies, but he was also a freelancer and startup co-founder. He enjoys mentoring colleagues and learning something new every day. From time to time, he writes blog posts or answers questions on [StackOverflow](#). He's been selected as the first draft editor of the upcoming book "[Real World Next.js](#)", authored by Michele Riva, a Google Developer Expert.

EDUCATION

University of Padova Oct 2019 – Dec 2021
Master's Degree in Computer Science, major in Software and Artificial Intelligence Grade: 110/110 with Honors

Czech Technical University in Prague Mar 2021 – Jan 2022
Graduate Research in Discrete Submodular Optimization with [Prof. J. Mareček](#) and [V. Kungurtsev, Ph.D.](#)
• Constructed and evaluated a novel family of multi-set maximization algorithms with approximation guarantees as a [M.Sc. Thesis](#)
• Thesis was evaluated as "significantly above the usual standard" by [Prof. Jan Vondrák](#) (Stanford University, CA, USA)

University of Padova Sep 2016 – Sep 2019
Bachelor's Degree in Computer Science Grade: 105/110

SELECTED WORK EXPERIENCE

Vivaldi United Group (main client) May 2018 - Present Remote
Software Engineer & Project Manager, External Consultant
• Cut logistics costs by implementing a web app in Node.js and C++ that proposes optimal paths to pick items from a warehouse
• Streamed and processed CSV files of 100+ MB between the browser and the backend services using Node.js, REST and gRPC
• Created two controller apps in Qt/C++ and Haskell to streamline configuration of proprietary hardware equipment

Pagination Jun 2019 – Aug 2019
Software Engineer, Intern Padova, Italy / Remote
• Designed and implemented a distributed serverless architecture on AWS using Go, Protobuf, and Redis Cluster
• Automated builds, code generation, tests, deployment using Docker, Jenkins, Terraform

Workteam Jul 2016 – May 2019
Software Developer Venice Area, Italy
• Contributed to several company RESTful products and internal auditing tools, both as a solo and in a team
• Mentored new members of the team, performed code reviews about TypeScript, Node.js, Postgres code

Skydreamer Feb 2017 – Aug 2017 Remote
Mobile Software Developer, Startup Partner
• Developed 70% of the product mobile app with React Native and Firebase, and mentored new International colleagues

SELECTED PROFESSIONAL SKILLS

- Proficient in: TypeScript, Python 3, Go, C++17
- Familiar with: Haskell, Rust, Scala
- Frameworks/Tools: Node.js, React.js, Apache Kafka, Akka
- Databases: Postgres, Redis, SQL Server
- Ops/Cloud: Docker, AWS Lambda, AWS API Gateway
- Programming Paradigms: Functional, Object Oriented

OPEN SOURCE PROJECTS

- React Native User Inactivity** – React Native, React.js Hooks, TypeScript Sep 2017 - Present
• Wrote a library that exposes a hook to allow developers to run custom logic upon inactivity on mobile; 140+ stars on Github
- Budgeted Maximum Cover** – Scala, Rust, Python 3, Akka Typed Oct 2021 - Nov 2021
• Implemented a concurrent optimization problem using the actor model and parallel iterators, comparing Rust to Scala
- Metaheuristic TSP Solver** – C++17, Python 3 Dec 2020 - Mar 2021
• Implemented a configurable metaheuristic TSP solver engine in C++17 with hyperparameter tuning support
- While+ Programming Language Interpreter** – Haskell, Monad Transformers, Semantics Oct 2020 - Dec 2020
• Developed a parser and a monadic interpreter with a REPL for an imperative programming language
- Butterfly** – Apache Kafka, Node.js, TypeScript, Java 11, Postgres, Docker Nov 2018 - May 2019
• Analysed, designed, developed and documented a Kafka-based notification hub microservice platform for [Imola Informatica](#)
• Led a team of 7 people, proposed architecture solution, guaranteed compliance with the project delivery deadlines
- Palitra** – Go, Travis CI Nov 2017 - Oct 2018
• Built a CLI tool that concurrently finds the n most frequent colors in a picture using message-passing via goroutines and channels

AWARDS

Winner of Public Tender 2015 - Jun 2016
Developed Android quiz app based on a Node.js + MongoDB backend to teach kids about road safety issues and rules Italian State