Călin Nicolau

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Personal

Software engineer with 5+ years of experience developing complex software and documentation. B.Sc. in Computer Science, strong research skills with and a rich background in functional programming, type theory and programming languages. Commited to continual learning and growth, eager to bring value in an engineering role.

Skills & Interests

System programming	C, C++, Rust, Python, Bash, Linux
Web	Angular, jQuery, Javascript, Typescript, HTML, CSS, Figma, Purescript, Elm
Databases	SQLite, PostgreSQL, MySQL, MongoDB
Programming	NodeJS, Java, C#, Haskell, Nix
Other	RxJS, Redux, Git, Redis, Docker, CI/CD, Markdown, LaTeX
Languages	Romanian, English

Experience

Software engineer
Oct. 2022 - Apr. 2024 (1y 7m)

Lenovo — Bucharest, Romania

`C` `C++` `Javascript` `jQuery` `Bash` `Python`

- Developed and maintained an embedded Linux solution for managing datacenter servers.
- Gained hands-on experience with low-level embedded Linux development, debugging and networking.
- Time managemet skills by prioritizing customer defects and tasks.
- Orchestrated improvements to internal documentation and source version management.

Formal verification engineer
Aug. 2021 - Oct. 2022 (1y 3m)

Runtime Verification Inc. — Bucharest, Romania

`Rust` `Go` `Blockchain`

- Performed Rust smart contracts security audits and reviews.
- Gained deeper understanding of Rust in the context of blockchain technology.
- Engaged in trainings on programming language formal specification and verification.

University teaching assistant
Oct. 2020 - Jan. 2021 (4m)

University of Bucharest — Bucharest, Romania

`Haskell`

- Supervized undergraduate students taking functional programming classes.
- Took part in grading student assignments.

Full-stack software developer
Dec. 2019 - Oct. 2020 (11m)

Runtime Verification Inc. — Bucharest, Romania

`Javascript` `jQuery` `SQL` `Jenkins` `Haskell` `Purescript` `Nix` `Solidity` `Blockchain`

- Built a web service for Solidity smart contracts coverage reporting.
- Frontend development using Javascript
- Developed features using a Haskell and Purescript.
- Gained experience using Haskell frameworks such as servant, lens, transformers/mtl, esqueleto.
- Gained experience with Purescript development using Halogen profunctor-lenses, affjax.
- Contributed to service packaging and deployment workflow using Nix.
- Engaged in frequent code review and testing.

Education

B.Sc. - Computer Science
UNIVERSITY OF BUCHAREST

2016 - 2019 (3y)

Bucharest, Romania

`Java` `C#` `C++` `Javascript`

- Graduation thesis: "Developing a BitTorrent client using Haskell" (9.5/10)

Romanian Baccalaureate Diploma
"IULIA HASDEU" NATIONAL COLLEGE

2010 - 2014 (4y)

Bucharest, Romania

Extracurricular Activity

Linux Basic - Credis Academy
COURSE

2013

Bucharest, Romania

- Work at the command line.
- Perform Linux system maintenance.

IT Essentials: PC Hardware and Software - Credis Academy
COURSE

2012

Bucharest, Romania

- Installation and maintance of computer systems.

ECDL Core Certificate
COURSE

2012

Bucharest, Romania

- Using Microsoft Office software.