

Cosmin Serdean

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Software Engineer with 5 years of experience working in small and large team environments, specializing in full stack development of user-friendly, feature-rich and robust applications. Enthusiastic about improving developer experience using Large Language Models and high availability production infrastructure.

Professional Experience

Software Engineer, Palantir Technologies

Jul 2022 - Present

- Developed a no-code tool for creating Retrieval Augmented Generation chatbots using Large Language Models. Implemented metrics and monitors for evaluating chatbot performance.
- Planned and led cross-team efforts to deploy chatbots to third-party chat apps; collaborated closely with the Application Security team to ensure adherence to data security controls.
- Took on support shifts, resolved client-facing outages, and mentored new team members.
- Technologies: TypeScript, React, Redux, Java, Undertow, Open AI GPT, Cassandra and GraphQL.

Software Engineer Intern, Palantir Technologies

Jul 2021 - Sep 2021

- Built a chat application used by thousands of employees of the US Dep. of Defense during military exercises.
- Learned to quickly familiarize myself with large codebases, including monorepositories with over 100k PRs.
- Gained experience in writing operationally robust code and became familiar with high availability requirements.
- Technologies: TypeScript, React, Redux, Java, CircleCI, Undertow, Matrix Messaging Protocol.

Frontend Engineer, Aggero

Sep 2020 - Jul 2021 & Sep 2021 - Jul 2022

- Developed a complex yet intuitive dashboard that displays real-time data on marketing campaign performance.
- Implemented a PDF report generation system to provide customers with analytics.
- Set up and maintained a robust end-to-end testing pipeline and led the effort to gradually adopt TypeScript.
- Technologies: TypeScript, React, Redux, Ruby on Rails, CircleCI, Amazon Web Services, Cypress.

Full Stack Engineer Intern, University of Manchester

Jun 2020 - Sep 2020

- Developed a form builder app to help an NGO gather feedback. Used TypeScript, React, ExpressJS, MongoDB.
- Acted as a mentor for my team and set up a pipeline for continuously deploying the application to production.

Full Stack Engineer, DataArt

Jun 2017 - Sep 2018

- Worked on building the client-facing ticketing system for a major US-based airline.
- Held a presentation on NextJS at a local conference.
- Technologies: JavaScript, React, Redux, NextJS, GraphQL, ExpressJS and MongoDB.

Education

BSc Computer Science and Mathematics

Sep 2019 - Jul 2022

- University of Manchester, Manchester, UK.
- First Class with Honors (3.7-4.0 GPA).

Projects

Dissertation project: Using deep reinforcement learning for robot object manipulation

- Implemented and evaluated Deep Deterministic Policy Gradients reinforcement learning with Hindsight Experience Replay for robotic object manipulation. Used Python with Pytorch and OpenAI Gym.
- Used Terraform to orchestrate parallelized training and hyperparameter optimization on Amazon Web Services.

Skills

Programming languages: TypeScript/JavaScript (Proficient), Java (Proficient) Python, Rust, HTML/CSS.

Technologies: React, Redux, NextJS, Undertow, GraphQL, OpenAI GPT, NoSQL and relational databases, Docker.

Other: Writing complex product proposals & implementation plans, UI design and prototyping using Figma.