

# Pedro de Souza Queiroga

Software Engineer

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## Academic experience at Universidade Federal de Pernambuco

- Aug 2018 **Undergraduate Research Fellow (CNPq).**  
Jul 2020 Undergraduate research fellowship at CNPq, research project on code comprehension in JavaScript. Contributed to the published article: An Investigation of confusing code patterns in JavaScript.

## Professional experience

- Nov 2021 **Software Engineer, Full time**, Centro de Estudos e Sistemas Avançados de Recife.  
May 2024 I developed systems for the web, with emphasis on frontend using Angular; I've developed gitlab CI/CD pipelines for company projects; Suggested and integrated marge-bot in gitlab repositories for our projects; Developed for the backend using Spring Boot, MySQL; Developed terraform scripts to orchestrate amazon AWS deployments; Worked with many AWS products, mainly configuring CloudFront and S3 to serve SPAs; Collaborated with international teams and delivered clear presentations in English  
Oct 2020 **Software Engineer, Internship**, FAST Soluções.  
Nov 2021 Gained work experience in TypeScript, Angular, Java, Spring Framework and Amazon AWS; Did automation with Bash and Python to help ease the experience of incoming colleagues; Was a part in developing stronger documentation methods; Tutored colleagues on reactive programming with rxjs and Angular, including showing and discussing how to solve some concurrency issues we were having.

## Projects (title contains link)

- Chat Chat with account creation, authentication, friendship list, offline/online status and seen confirmation on messages. Stack: Java, MySQL. Coursework for Communication's Infrastructure.  
Code Judge Online Judge for competitive programming. Coursework for Systems and Software Engineering. Stack: Go, React, Selenium.  
Object Rendering Program that renders objects and allows to rotate them in any of the three axis. Coursework for Graphics Processing. Made in JavaScript, a version using canvas and another WebGL.  
Anota Android App that reads the QR code emitted by invoices in Brazil. Compares price for the same list of items in others supermarkets. Coursework for Project Development. Native android and Firebase.  
Chess bot Haskell chess bot, coursework for Functional Programming. Implements minimax with pruning. Allows player vs player, CPU vs player and CPU vs CPU.  
Chatbots Discord chatbots, one using node.js and another in Python. Plays tic-tac-toe and allows users to request songs.  
Movie Schedule This project uses TESSERACT OCR to scan the available movie schedule at another website and generates an HTML version of it on-the-fly, if an up-to-date one does not already exist, which is intended to help blind people navigate. Stack: Phoenix, HTMX, GCP  
Website

## Skills

Angular, Git, TypeScript, Java, Python, HTML, CSS, Elixir, Phoenix, Amazon AWS, C, SQL, Haskell, Node, React, Spring, GCP, Android, Arduino UNO, Django, Flask, Go, Heroku, MongoDB, React Native, Scala, HTMX

## Languages

English (advanced), Portuguese (native)