

# Pedro Vitor Vilar Pitzer Cleis

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## *Skills*

Back-end (Java with Spring, **Python** with **Django**), Front-end (JavaScript with Angular, **TypeScript** with **React**), Database (**DGraph**, Oracle **SQL**, PostgreSQL), CI/CD (**GitHub Actions**, CircleCI, GitLab, **K8S**, Docker, JFrog), SCM (**Git**, **Helix Core**), Operating System (GNU/Linux, macOS, Windows), Mobile (React Native)

## *About*

Computer scientist with experience with both the academic and the industry experience, have a B.Sc. from the Federal University of Paraíba, while working as a civil servant and a workgroup assistant, researching the intersection between formal methods, privacy, security, denial of service attacks (especially HTTP and VoIP), networking (especially BLE, NFV and SDN). After graduating I went to Manaus to work at Sidia, a company created by Samsung Electronics to do R&D in the Latin American region. After almost a year and a half, I returned to my hometown and I'm currently working for Philips

## *Experience*

### **Philips (Healthcare)**, João Pessoa, BR

- Experienced software developer, Mar 2022 – *Current*
  - Full-stack developer (focus on back-end)
  - Working in the Financial and Accounting squad of the Tasy team, legal group
  - Oracle relational database for storage, Angular with JavaScript for front-end and Java with Spring for back-end

### **Sidia (R&D)**, Manaus, BR

- Junior software developer, Dec 2020 – Mar 2022
  - Full-stack developer (focus on front-end)
  - Worked at the SOL (Samsung Electronics Overseas Lab) with various projects
  - Published the AMANDA paper
  - Using graph databases (DGraph) for storage, React with TypeScript for front-end and Python with Django for back-end
  - Migrating the CI/CD of various internal projects
  - Git and Helix Core as source control management

### **SUNY Upstate Medical University (Healthcare)**, Syracuse, US

- Project Assistant, May 2016 – Aug 2016
  - Project done together with the course at Syracuse
  - Developing a logistics model using operations research and supply chain optimization
  - Focus on logistics, business intelligence, and the flow of material

### **National Education and Research Network (R&D)**, João Pessoa, BR

- Workgroup assistant, Oct 2015 – Oct 2016

- Researcher on network security
- Working closely with professors Dr. Vivek Nigam and Dr. Iguatemi Fonseca with researching the state-of-the-art attacks and defenses in HTTP and VoIP
- Developing simulations of networks using Maude System that closely relate to real world situations
- Further development over the years created a “computer program registration”, BR 51 2016 001750-3

### **Paraíba State’s government (Civil service), João Pessoa, BR**

- Administrative Technician, Jan 2013 – Aug 2015
  - IT Manager at the João Goulart State School
  - Teaching competitive programming for high school students to compete in local Olympiads

### ***Education***

- B.Sc. in computer science
  - Federal University of Paraíba, UFPB, 2013 – 2020
- Exchange student in the computer science program
  - Stockton University, 2015 – 2016
- Summer course in project planning & management
  - Syracuse University, 2016

### ***Research***

- AMANDA: A middleware for automatic migration between different database paradigms

### ***References***

- Vivek Nigam, email: vivek.nigam AT gmail DOT com, <https://nigam.info/>
- Phillip Furtado, email: phillip.f AT samsung DOT com
- Jonathan Ev, email: Jonathan.rodrigues.ev AT philips DOT com

### ***Languages***

Portuguese: Native

English: Full professional proficiency (603 in TOEFL ITP in 2015)