



# SOKRATES LAMPROU

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## EDUCATION

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### **Linköping University, Linköping**

*Aug. 2017 - Jun. 2019*

B.S. in Computer Science - Software engineering (Innovative Programming)  
Department of Computer and Information Science

### **Linköping University, Linköping**

*Aug. 2014 - Jun. 2017*

B.A. in Cognitive Science  
Department of Computer and Information Science

## WORK EXPERIENCE

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### **Bambuser, Stockholm**

*Feb. 2021 - Today*

*Backend Developer*

- I have had the opportunity to participate in various projects involving the integration of application programming interfaces (APIs) with enterprise resource planning (ERP), billing, IT service management, and customer relationship management (CRM) systems. In the course of these integrations, I have gained experience working with both relational and non-relational databases. I have also tackled challenges related to subscription billing by implementing messaging queues and schedulers. In my latest team I have worked with enhancing user experience using React.

### **Nasdaq OMX, Stockholm**

*Sep. 2019 - Feb. 2021*

*Software Developer*

- Worked on two different projects with Java as the core language. The first project maintained a Real Time Clearing (RTC) system to Brasil Bolsa Balcão (B3), formerly BM&F Bovespa, Brazil's largest equity and derivatives exchange and clearing house. Here, I helped out with change requests (CR) and fixing production bugs. In the second project, I am currently helping out the Collateral Management team that deliver parts of Nasdaq Financial Framework (NFF) which is an end-to-end solution to financial infrastructure to the Swiss Exchange (Six). In this team, I am implementing both front- and backend features for the core desktop application.

### **Linköping University, Linköping**

*Aug. 2018 - June 2019*

*Teaching assistant*

- Tutored Python programming for first year engineering students in TDDE23 and TDDE24. Involved helping students during lab sessions and explain fundamental concepts in weekly seminars. Also assisted in web programming (TDDD97), electable course for engineers.

### **Configura, Linköping**

*Jun. 2018 - Aug. 2018*

*Developer*

- Summer internship as developer in the core web development team. Modernised old unscalable code to today's code standards which involved coding in TypeScript, React and Perl. I received an invaluable

experience of working agile together with a team in KL, Malaysia while experiencing the challenges that involves learning a big code base with an unfamiliar grammar.

### **Webhallen, Linköping**

Aug. 2016 - May 2018

*Sales clerk*

- Webhallen is one of Swedens leading retailer in hardware, home electronics, gadgets, games and movies. Enhanced my ability to better understand and solve customers technical issues while at the same time learning about new technology such as Network-Attached-Technology (NAS) technology and smart home systems.

### **Securitas, Stockholm**

Aug. 2013 - Nov. 2015

*Security guard*

- The position involved surveillance and internal as well as external customer contact together with administrative tasks. Worked night shifts at a data center and a bath house.

### **Vapiano, Stockholm**

Aug. 2012 - Aug. 2013

*Pasta chef*

- As a pasta chef my main focus were to cook and serve the guests dishes according to their preferences to achieve the greatest customary satisfaction.

## **HOBBY AND STUDENT PROJECTS**

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### **Appointmentless.com**

Service that sends out an anonymous polls before meetings start to get assessments and take action to keep or discard the meetings. Built with NextJS and React with Cloudflare KV as backend.

### **WIP: Failedge.com**

Website to learn from other peoples failures. Built with NextJS and React with Supabase as backend.

### **WIP: Distjobs.com**

Job board for distributed jobs. Built with NextJS and React with self-hosted Supabase as backend.

### **Playback Assistant** <sup>1</sup>

My most recent side project where I have implementing a voice-command system that changes my playback device (from headset to speakers). The changing of devices is mainly written in **C++** (MSVC compiler), and the voice command system is implemented in **Python**.

### **BlackHawk** <sup>2</sup>

Side project written in **Bash** and **C++** (Still ongoing). Wrote a search tool that scans web pages for PDF files and scans against a keyword in order to get an overview of important documents.

### **Divergent** <sup>3</sup>

Divergent run a specific ava test case until it both passes and fails, then it to analyse the trace of both runs and provide the user with useful information, if the execution path or return values diverged from a passing and a failing run. Fun side project I wanted to try off after my thesis. It's useful since it shows where the code is non-deterministic.

### **Non-deterministic tests and where to find them:**

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<sup>1</sup><https://github.com/socketopp/playback-assistant>

<sup>2</sup><https://github.com/socketopp/blackhawk>

<sup>3</sup><https://github.com/socketopp/divergent>

## Empirically investigating the relationship between flaky tests and test smells by examining test order dependency

Wrote my bachelor thesis for Pelab <sup>4</sup> in collaboration with Software Center <sup>5</sup>. The thesis sets out to implement a static code analyser in **Java** that detect different type of test smells that induce flaky tests.

## IFS (Student project)

Implemented a chatbot (Google Assistant Application) for IFS that integrated their endpoints, written in **JavaScript**. The aim of the project were to deliver a proof of work to explore the viability of new communication medium for their customers.

## TECHNICAL STRENGTHS

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**Proficient** Python, NodeJS, C++, Java, Linux

**Experience** TypeScript, React, HTML5, CSS, Git, Bash, JQuery, mySQL, MongoDB

**Familiar** Ruby, C#, Perl, C, php, R, Assembly

## EXTRACURRICULAR ACTIVITY

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Co-Organized “KVIT 2016” - an annual symposium & conference in Cognitive Science & IT for the students of Linköping University.

Trustee as course evaluator for the Student Association of Cognitive Science (KogVet) committee on education between Sep. 2014 - Dec. 2016.

Trustee as sponsor for KogVet social committee which arranged social activities and other events for the students of the Cognitive Science program between Mar. 2015 - Mar. 2016.

## PERSONAL TRAITS & INTERESTS

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- Loves to travel, meeting new people, going on different kinds of journeys and hikes while abroad.
- Currently working on 3 different side projects that I hope could end up as a passive income in the future.
- Outgoing person that enjoy working as an individual as well as in group. From my experience it enables you do overcome obstacles much faster when dealing with non trivial tasks.

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<sup>4</sup><https://www.ida.liu.se/labs/pelab/>

<sup>5</sup><https://www.software-center.se/>