Katerina Chinnappan

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EDUCATION

Vrije Universiteit Amsterdam Amsterdam, Netherlands
Computer Science, MSc *September 2018 – July 2020*

University of California, Santa Cruz Santa Cruz, CA
Computer Science, BA *September 2014 – June 2018*

EXPERIENCE

Software Engineer Intern June 2017 - September 2017
Barefoot Networks *Santa Clara, CA*

- Extensive python scripting, working with database such as mongoDB, kafka.
- Writing PTF (packet testing framework based on python) tests for testing Tofino switch.
- Learning P4/ writing, debugging scripts. Introduced and used Jenkins, SNMP.

CMPS 11(Intermediate Java) Tutor January 2017 - April 2017
University of California, Santa Cruz *Santa Cruz, CA*

- Assisting students in understanding course concepts; developing study strategies and methods for independent work; developing writing and critical thinking skills through reviewing, commenting on and discussing class material. Preparing for exams.

CMPS 12, 12B (OOD) Grader September 2016 - January 2017
University of California, Santa Cruz *Santa Cruz, CA*

- Grading programming assignments for 200+ students every week.
- Answering students' emails and assisting them whenever they had questions about their grades.
- Helped to grade exams and final exam

NOTED PROJECTS

SeatFinder - Angular and Loopback Project Designing Services for The Cloud
VU Amsterdam *Amsterdam, NL*
This application aims to propose a solution for the VU concerning finding study spots for the students and saving their time.

- Front-end: Angular7
- Back-end: Node.js
- Built REST API with Loopback
- Used IBM Cloudant - NoSQL database made for the cloud
- Deployed Loopback API through API Connect
- Deployed Angular project through IBM Cloud onto Bluemix Cloud Platform 2019

Asynchronous Task Runner - Akka Project Distributed Systems 2018
VU Amsterdam *Amsterdam, NL*
An asynchronous job runner which supports fault tolerance(byzantine failures, 2 simultaneous failures) and auto-scaling

- Entire project written using the Akka framework
- System is completely distributed
- Tested on the DAS4 cluster - The Distributed ASCI Supercomputer 4

- **Designated Driver**   Software Engineering Part III 2018
  UC Santa Cruz   *Santa Cruz, CA*
  An app built for drunk people to get home without leaving their car behind.

  - Front-end: Vue.js
  - Back-end: node.js
  - Firebase for database
  - Deployed to Heroku

- **Textbook Heroes - React Project**   Web Development 2018
  UC Santa Cruz   *Santa Cruz, CA*
  Use modern Node/React/Express frameworks to create a website that allows students to list no-longer-needed textbooks for sale and connect potential buyers with them.

  - Front-end: React
  - Back-end: Node.js
  - Used Firebase for database

- **Kitsilano Health Monitor UI**   A Barefoot Networks Project 2017
  Barefoot Networks   *Santa Clara, CA*
  A health monitor to display and monitor switch status

  - Developed custom view feature to view live timeline for statistics
  - Programmed in python
  - Collected UDP headers from server every 5 minutes, stored in mongoDB
  - Used pymongo to allow queries for custom times
  - Display statistics on live graph

Skills

React, Angular, Loopback, Cloudant, Vue.js, Django, Akka, MongoDB, Linux, Java, Python, C++, HTML/CSS, REST