Yu Pan

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Objective

Looking for a software engineer intern position focusing on backend or data science. Currently eligible working in Germany.

Education

Sep 2015 - Jun 2018 | **Jacobs University**
Bremen, Germany
– Bachelor in Computer Science
– GPA: 1.70 on a 1.0 to 5.0 scale

Sep 2017 - Dec 2017 | **Carnegie Mellon University (One semester exchange)**
Pittsburgh, United States
– GPA: 3.80 on a 4.0 to 0.0 scale

Technical Skills and Knowledge

C++, C, Python, Standard ML, OCaml, Git, Selenium, Numpy, Linux, Scala

Machine Learning, Functional Programming, Discrete Mathematics, Compiler Design, Linear Algebra, Probability, Cryptography

Work Experience

Jun 2017 - Aug 2017 | **Software Engineer Intern**
Preisenergie, Munich
– Design and build an automated web-application UI testing structure with Selenium.
– Build a Jenkins CI pipeline including steps of unit tests, integration tests and UI tests, and integrate it with BitBucket pull request board.
– Build web scrappers with Python, Selenium and BeautifulSoup to pull data from data source websites, format them with clear schema for further model building and data analysis.

Sep 2016 - May 2018 | **Teaching Assistant**
Jacobs University, Bremen
– Fall 2016: General Computer Science & Mathematical Software Lab
– Spring 2017: Secure and Dependable System
– Spring 2018: Computability and Complexity

Projects

Sep 2017 - Dec 2017 | **C0 compiler**
– Implement the compiler of C0, a safe subset of C programming language, using OCaml. The project includes parsing, abstract syntax tree building, typechecking, machine code generation, error handling and several optimizations.
– Implement some basic Object-Oriented features on top of C0.

Feb 2018 - May 2018 | **Classical Music Generator with Echo-State Network (Bachelor Thesis)**
– Process music files (in MIDI) into formatted train and test data using python and numpy.
– Build and train an echo-state network, a special architecture of recurrent neural network, using ridge-regression, k-fold cross validation and parameter optimization.

Languages

Chinese: Mother Tongue English: Bilingual Fluency German: Basic Knowledge