Samuel Halim

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EDUCATION

University of California, Berkeley **Berkeley, CA**
Bachelor of Science, Electrical Engineering and Computer Science **May 2017**
Relevant Coursework: Efficient Algorithms and Intractable Problems, Artificial Intelligence, Operating Systems and System Programming, Internet Architecture & Protocol, Database Systems, Computer Security

TECHNICAL SKILLS

- *Programming Languages*: Java, Python, Ruby, C, C++, Linux/Unix Script, Scheme, Scala, MySQL, PostgreSQL, MongoDB, SQL, HTML/CSS, JavaScript
- *Framework*: ReactJS, AngularJS, Node.js, Ruby on Rails, Bootstrap, Spring MVC, Flask, Jinja2
- *Miscellaneous*: jQuery, REST API, Git, Docker, Heroku
- Experienced in using IDE (IntelliJ, XCode) and working in Linux, Windows, and Vagrant environment

EXPERIENCE

Blibli.com (PT Global Digital Niaga) **Jakarta, Indonesia**
Software Developer Engineering Intern **June 2016 – Aug 2016**
- Worked in a team to develop a new scheduling feature to the existing **Java** codebase that increased performance of main website
- Improved code coverage of Loyalty Java SDK to 96% by using **SonarQube** as a measurement tool

UC Berkeley AMP Lab **Berkeley, CA**
Web Developer **February 2016 – May 2016**
- Designed an appealing and interacting website **e-mission.eecs.berkeley.edu**
- Planned and executed migration of legacy HTML/CSS as well as functionality of the website into **AngularJS**

PROJECTS

Loyalty Center
- Built a web application for company's internal tools to handle pending point issue and analyze company's data through chart while interning at blibli.com
- Designed API to call APIs from other server to gather the data based on user's need
- Technologies: **D3.js, ReactJS, Flux, Scala**

Multi User Blog
- Developed a blog with user registration and sessions, post management, upvotes/downvotes and comments
- Tightened security for back end user's data with hashing algorithm and salt (SHA-256 and HMAC)
- Technologies: **Python, Jinja2, Google App Engine, HTML, CSS**

Query Optimizer
- Implemented the System R cost-based approach to determine the most efficient way to execute given query
- Technology: **Java**

Tournament Database (https://github.com/samuelhalim/Tournament-Database)
- Modeled a Swiss-System tournament functions to connect, query, and make changes to database
- Technologies: **Python, PostgreSQL**

WAN Optimizer (https://github.com/samuelhalim/Wan-Optimizer)
- Devised a middle-box application using caching to optimize transmitted data over a Wide Area Network (WAN)
- Technology: **Python**

Chat Server
- Programmed a simple chat server similar to Slack and IRC that allows user to converse in one channel at a time
- Technology: **Python**

LEADERSHIP

LEADERSHAPE INSTITUTE **Berkeley, CA**
Participant **January 2016 – January 2016**
- Attended an intensive six-day leadership development program with 119 other engineering students
- Strengthened skills related to inclusive leadership, group decision making, emotional intelligence, community building, and leading with integrity