**K. DORUK KARINCA**

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**EDUCATION**

**University of California, Los Angeles (UCLA)**

*M.S. in Computer Science* Expected Jun 2021

*B.S. in Computer Science and Engineering 3.5/4.0 GPA,* Aug 2019

**Relevant Courses**: Statistical Machine Learning, [Machine] Learnability Theory, Search Algorithms, Networks, Algorithms & Complexity, Programming Languages, OS, Computer Architecture, Statistics, Discrete Math

**Honors**: Dean’s Honors

**WORK EXPERIENCE**

**LendingClub** San Francisco, CA

*Software Engineering Intern*Jun 2019 – Aug 2019

* Implemented full-stack click tracker using **React, Node, SQL, Spring Boot** to collect users’ loan preferences.
* Captured 800+ clicks/week on partner loans using this tracker, gathering key business insights on user behavior.
* Revised UI state management for loan offers page to preserve user’s progress even after a browser refresh.

**Veritas** Santa Clara, CA and Mountain View, CA

*Software Engineering Intern*Jun 2018 – Sep 2018 and Jun 2017 – Sep 2017

* Developed authentication client & server compatible with Veritas products using **REST**, **Argon2**, and **PL/SQL**.
* Developed full-stack product, Veritas License Auto Sync, using **Spring Boot** and **JavaFX** that auto-renews expiring Veritas product licenses, to provide service to 86% of Fortune 500 companies**.**
* Wrote **Java** app to analyze any PDF invoice heuristically using Tesseract and LingPipe **NLP,** extracting data such as payment date, tax amount etc, saving time and money by eliminating manual data entry.
* Improved navigation experience for **Angular**-based web app for customers like Intel, T-Mobile, and BofA.
* Organized events as a lead intern and wrote articles on Veritas’ on-campus life with interns.

**Howard Hughes Medical Institute, Ozcan Research Group** Los Angeles, CA

*Undergraduate Researcher and Developer*Dec 2015 – Mar 2019

* Contributed to 3 academic papers, 3 conference proceedings and 4 oral presentations overall.
* Sickle Cell Detection
  + Raised sickle cell anemia detection accuracy from portable microscope images from 75% to 92% by developing **MATLAB**-based **machine learning** image-analysis software using a Boosted Tree and **neural network**.
  + Reduced diagnosis costs in Sub-Saharan African countries that have >150,000 deaths/year.
  + Received *Best Project Award at Ozcan Research Group* showcase*.*
* Bee Parasite Detection: Collaboratively developed **C#, MATLAB** app to count parasites from microscope images.

**PROJECTS**

**Featuretools (Github:** [**github.com/FeatureLabs/featuretools**](http://bit.ly/tensorflowcc)**)** Aug 2019

* Contributed to **Python** open-source project that automates the machine learning feature engineering process.
* Added support for classifying features that contain US states and regions; wrote unit tests.

**TensorFlow Column Comparator (Github:** [**bit.ly/tensorflowcc**](http://bit.ly/tensorflowcc)**)** Sep 2018

* Built TensorFlow automator to select best features with normalization and hyperparameter optimization.
* Made console tool in **Python** to allow data scientists to easily obtain relationships in previously unseen data.
* Calculated and displayed user’s training progress and error rates of correlation for finished trainings.

**Uplift (Android app)**: Nov 2016 and Apr 2015

* Built social network application based on location-based content ranking using **Node.js**.
* Won Top 10 Prize at LA Hacks, UCLA’s hackathon, among 200 teams.
* Won Facebook Award: Best Product among 10 teams, as decided by a jury of Facebook engineers.

**History Slides (web application:** [**historyslides.com**](http://historyslides.com/)**):** May 2014 – Sep 2018

* Implemented slideshow capability, using native **JavaScript,** foramap-based app for interactive history teaching to fill the gap of visualization of history in traditional Turkish education system.
* Built interactive world map in which major WWI events are chronologically highlighted on historical boundaries.

**TECHNICAL SKILLS**

* **Proficient:** Python, Java (Spring Boot), JavaScript (Node, Parse), MATLAB, React.
* **Basic:** TensorFlow, PL/SQL, Verilog, Bash.