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) — 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) — 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): — May 2014 – Sep 2018

- Implemented slideshow capability, using native **JavaScript,** for a map-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.