Krishna Pakalapati

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EDUCATION

University of California, Riverside, Riverside, CA
Bachelor of Science, Computer Science, Expected 2019

PROJECTS

Config Editor: Created a microservice that allows ticketing clients to edit the appearance of an event website, icons, and the items that appear on the navigation bar. The front end was built in React with the redux-saga pattern. The back end logic was handled by an AWS Lambda function written in Node.js. This project was made for my internship at Paciolan.

Feature Selector with Custom Heuristic: Wrote a C++ program that, given a data set with multiple classes, finds the set of class features that most accurately identifies data points to their respective classes. A custom heuristic I call *Pessimistic Backwards Elimination* speeds up feature selection drastically by implementing Backwards Elimination but giving up after the global maximum in accuracy is detected for each feature set.

Hashed Password Cracker: Wrote a Python program that cracks passwords hashed in md5 with salt. It uses the python multiprocessing library to implement the producer-consumer pattern in order to quickly generate and hash random passwords and then compare them with the hashed target password.

iLonely: A social media website that allows user to find and make friends with other users based on their age and proximity preferences. Users are provided with secure login, a customizable profile page, messaging, a post feed, and the ability to connect to their Instagram account and transfer pictures. The Django Python web framework was used to create the website while MySQL was used to create and maintain the database.

Mini-Java Compiler: Wrote a compiler for the object oriented programming language Mini-Java, which is a subset of Java. Program type checking and translation from Mini-Java to the intermediate Vapor language has been completed. Translation from Vapor to an even lower level intermediate language VaporM is currently in progress, and translation from VaporM to MIPS assembly language is planned for the future. The Mini-Java compiler is written in Java.

Transportation App: An android application that provides users with daily notifications about the occupancy levels of different parking lots at the University of California, Riverside. The user uploads their class schedule, and the application directs them to a vacant parking lot closest to their next class. Android studio and Firebase were used to implement this application.

COMPUTER SKILLS

Languages: C, C++, Java, Python, Swift, Bash, SQL, LaTeX, Javascript
Web Development: HTML, CSS, Django, React, Node
Applications and Libraries: Vi/Vim, Visual Studio, Git, VMWare, VirtualBox, MySQL, Tensorflow, AWS S3, AWS DynamoDB, AWS Lambda.
Operating Systems: Unix, Linux, Mac OSX, Windows.

AWARDS

Chancellor's Scholarship	University of California, Riverside
Outstanding Delegate	Model United Nations, Security Council
Dean's Honor List	University of California, Riverside

WORK EXPERIENCE

Paciolan: 06/23/2019 - 09/14/2019
Worked as a software engineering intern at Paciolan.