

PRADYOTH VEMULAPATI

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EDUCATION

Seattle, WA	University of Washington	Sept 2016 – March 2020
<ul style="list-style-type: none">• Major: Computer Science, B.S.• Class Standing: Senior• Achievements: Dean's List Spring 2017, Spring 2018 - Present• Relevant Coursework: Computer Networks, Android Development, Computer Vision, Databases, Machine Learning, Data Structures, Systems Programming, Programming Languages, Matrix Algebra		

EXPERIENCE

Software Development Intern	MacCoss Lab, UW Genome Sciences	June 2019 - Present
Skyline Project (skyline.ms) – #1 most used application in the world for targeted mass spectrometry. <ul style="list-style-type: none">• Developed a backend service to refine molecular data based on statistical methods.• Extended the application's UI and command line arguments to include new refinement methods.• Refactored existing refinement code to adhere to the model-view-controller design pattern.• Designed and built an internal tool to auto-correct and zip .resx files with a user interface and progress monitor.• <u>Leveraged knowledge</u> in C#, object oriented design, algorithm complexity, Windows Forms, and Git.		
Research Assistant	Digital Financial Services Research Group	April 2018 - December 2018
UW Pesa (uwpesa.com) – web-based mobile money sandbox for fast prototyping of financial service products. <ul style="list-style-type: none">• Increased modularity of USSD application by defining screens in YAML and integrating into Django application.• Created REST API methods for a mobile financial transactions server in Python Django.• Wrote unit tests for API methods and internal methods to ensure robustness.• <u>Leveraged knowledge</u> in Python, Django framework, server-side development, and Git.		

SOFTWARE PROJECTS

Personal Website: *pradyoth.dev* (for additional information and projects)

- Created a personal portfolio website using HTML, CSS, and Bootstrap.

iOS Food Finder App (2019)

- Developed an iOS application that locates nearby restaurants based on a user provided picture of a food.
- Integrated the Firebase ML Kit SDK to call the Google Cloud Vision API and label the given image.
- Called the Yelp Fusion API to find restaurants that are relevant to the image label and are close to the user's location.
- Incorporated logic to handle asynchronous tasks for dependent API requests.
- Designed a simple and straightforward UI to take pictures and display restaurant results using SwiftUI.
- Utilized: Swift, Firebase ML Kit, SwiftUI

Photo Caption Generator (2017)

- Built a web scraper to pull song lyrics from Genius.com, and parsed them into a csv file.
- Used the Azure Computer Vision API to identify a given image and match keywords with song lyrics.
- Created a simple web interface and retrieved lyrics from SQL database.
- Won the special prize at CodeDay Hackathon for using a variety of interesting API's.
- Utilized: Python, Java, SQL, JavaScript, PHP, HTML

Tic Tac Toe (2018)

- Designed a tic tac toe game with a simple command line interface.
- Coded an unbeatable AI bot based on the minimax algorithm.
- Created a GUI using Google Web Toolkit to deploy on my personal website.
- Utilized: Java, Google Web Toolkit

Skills

- **Languages:** (*proficient*): Java, C, C#, Python (*familiar*): C++, Swift, SQL, NoSQL/SQL++, HTML/CSS
- **Technologies:** (*proficient*): Git, Unix, Bash scripting, Visual Studio (*familiar*): Azure SQL Server, Django, Google Web Toolkit, Android (Java), Xcode, Java Swing, Java Spark