PRADYOTH VEMULAPATI

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EDUCATION

Seattle, WA **University of Washington** **Sept 2016 – June 2020**

- **Major:** Computer Science, B.S.
- **Class Standing:** Junior
- **Achievements:** Dean's List Spring 2017, Spring 2018 - Present
- **Completed Coursework:** Foundations of Computing I & II, Software Design and Implementation, Data Structures and Parallelism, Systems Programming, Programming Languages, Hardware/Software Interface, System and Software Tools, Matrix Algebra
- **Current Coursework:** Databases, Computer Networks

EXPERIENCE

Research Assistant **Digital Financial Services Research Group** **April 2018 - Present**

UW Pesa

- 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.
- Increased modularity of USSD application by defining screens in YAML and integrating into Django application.
- Improved Android app usability by implementing a detail view to display transactions.

Systems Specialist **UW Learning Technologies** **Sept 2017 – Present**

- Work in a team of 5 employees administering around 600 workstations and related infrastructure.
- Setup Linux, MacOS, and Windows servers and VMs for deploying disk images and filesharing.
- Automate deployments with PowerShell and Bash scripts.
- Use project management tools such as JIRA and Git.

PROJECTS

Personal Projects

Photo Caption Generator (2017)

- Used Azure Computer Vision API and other API's to identify a given image and choose matching quotes and song lyrics scraped from the web.
- Created simple web interface and retrieved lyrics from SQL database.
- Won 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 and a bot using the minimax algorithm in Java.
- Utilized: Java

Course Projects

Chess (2017)

- Created chess bots using sequential and parallel graph/tree algorithms.
- Utilized: Java, Fork/Join Framework

Graph & Search (2018)

- Implemented a graph ADT along with Dijkstra's and breadth first search.
- Wrote unit tests to ensure bug-free functionality.
- Utilized: Java, Junit

Map GUI (2018)

- Created a campus map GUI with Java Swing to find shortest paths between buildings.
- Used MVC design pattern to divide application logic and increase code modularity.
- Utilized: Java, Java Swing

Languages and Technologies

- Java, C, C++, Python, SQL, NoSQL/SQL++, HTML/CSS
- Git, Azure SQL Server, AWS EMR, Java Spark, Django, Unix, Bash scripting