

PRADYOTH VEMULAPATI

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EDUCATION

Seattle, WA	University of Washington	Sept 2016 – June 2020
<ul style="list-style-type: none">• Major: Computer Science, B.S.• Class Standing: Junior• Achievements: Dean's List Spring 2017, Spring 2018 - Present• Relevant 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, Databases, Computer Networks, Machine Learning, Android Development		

EXPERIENCE

Research Assistant UW Pesa	Digital Financial Services Research Group	April 2018 - Present
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• Work in a team of 5 employees administering around 600 workstations and related infrastructure.• Automate deployments with PowerShell and Bash scripts.• Setup Linux, MacOS, and Windows servers and VMs for deploying disk images and filesharing.• Use project management tools such as JIRA and Git.		

PROJECTS

Personal Projects

Photo Caption Generator (2017)

- Used Azure Computer Vision API to identify a given image and choose matching 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.
- Created a GUI using Google Web Toolkit to deploy on my personal website.
- Utilized: Java, Google Web Toolkit

pradyoth.dev (2019)

- Created a personal portfolio website with a minimal theme.
- Used Bootstrap and jQuery libraries to implement scrolling functionality and enable mobile compatibility.
- Utilized: HTML, CSS

Course Projects

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, Google Web Toolkit