

Vineet Parvathala

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EDUCATION

UNIVERSITY OF MICHIGAN (ANN ARBOR) - B.S. IN COMPUTER SCIENCE

May 2022

GPA: 3.65 / 4.00 | **Technical Skills:** C++, Python, Java, HTML/CSS, SQL, Tableau, AWS, MATLAB, Figma

Relevant Coursework: Data Structures/Algorithms (EECS 281), Web Systems (EECS 485), Operating Systems (EECS 482), Computer Security (EECS 388), Computer Architecture (EECS 370), Linear Algebra (MATH 214), Discrete Math (EECS 203), Statistics & Data Analysis (STATS 250), New Product & Innovation Management (MKT 425), Minds & Machines (PHIL 340)

Awards & Honors: 1st Place - Ann Arbor Spark VC Competition (2019), Facebook Above & Beyond CS Fellowship (2020)

WORK & LEADERSHIP EXPERIENCE

STEIGNET - SOFTWARE ENGINEERING INTERN

June 2020 - August 2020

- Implemented Google BERT natural language processing classification model for automating email interactions with real estate agents, allowing for parallel negotiation of thousands of single-family residence purchases and sales
- Developed Zillow & Redfin property web scraper script in Python with Selenium and BeautifulSoup libraries using rotating proxies to bypass captcha and get relevant property information such as home dollar value, school rating, etc.
- Built internal front-end property management interface using Python Flask, Jinja, & HTML, hosted on AWS EC2, to track active property statuses, access statistics on previously closed properties, and view potential property listings
- Created email text pre-processing script in Python, leading to 12% increase in NLP model accuracy

UMICHMART (UM²) - SOFTWARE DEVELOPER

January 2019 - April 2020

- Developed React Native e-commerce application for Android and iOS to facilitate consumer-to-consumer (C2C) sales of student tickets and apartment leases, creating centralized campus marketplace for student goods and properties
- Performed market research via surveys and interviews, analyzing campus preferences to determine that 98.7% of college students sampled desired a convenient and secure platform for student-based transactions
- Led design vision for app by crafting sketches, process maps, wireframes, and Figma mock-up interfaces to improve user flow, optimize onboarding and refine dashboard navigation experience for new users
- Implemented in-app payment using Stripe API and integrated PayPal with escrow service to prevent student fraud
- Negotiated contract with startup incubator, Ann Arbor Spark, securing \$10,000 in legal and entrepreneurial resources

CHUBB INSURANCE - DATA ANALYTICS & TECHNOLOGY INTERN

May 2019 - August 2019

- Analyzed vendor data within Small Commercial Insurance group to identify drivers behind invalid business addresses in Chubb Marketplace, improving insurance agents' address accuracy by 30% for 40,000 quotes per month
- Conducted quality control and technology assessments using HP Application Lifecycle Management web client tool
- Reviewed app development & performance defects in insurance quote platform; expedited onboarding time by 50%

PREMIER KICKS - BUSINESS MANAGER & SOFTWARE DEVELOPER

August 2017 - July 2019

- Started online shoe venture and built customer base, leveraging social media platforms and local store partnerships, to buy and resell highly coveted sneakers for premium prices, completing \$10,000 in transactions
- Designed Python script using Selenium to automate the process of adding a sneaker to the cart, filling in shipping and billing information, and completing the purchase within a timeframe of three seconds

PROJECTS

CLIENT-SIDE DYNAMIC INSTAGRAM CLONE (Python, JS, React, SQL, AWS)

October 2020

- Built interactive Instagram clone web app using Python, Flask, JavaScript, React and asynchronous programming that makes AJAX calls to REST API to emulate Instagram with attributes such as infinite scroll, double click to like, and comment, as well as session control for each user. Managed database using SQLite and deployed using AWS

STOCK MARKET SIMULATOR (C++)

February 2020

- Created a simulation of a commodity trading engine where traders could buy and sell based on changes in value of the underlying assets. Implemented priority queue data structure and streaming algorithm that allowed for evaluation of exchanges to determine optimal point at which to trade commodity for highest profit margin

INTERESTS & ACTIVITIES

Interests: University of Michigan sports, fantasy football, sneakers, cooking, table tennis, dancing, stock/options trading

Activities: VP of External Operations - Atlas Digital Tech Consulting, Kappa Theta Pi - Professional Technology Fraternity