VINCENT CHENG

(347) 899 - 7798 | VincentCheng1995@gmail.com | Website | Github | LinkedIn

EXPERIENCE

Barclays PLC, New York City, New York   February 2018 – Present

Software Engineer - Big Data at BarclayCard

- Building analytics solutions and enterprise grade applications for Barclays Business Solutions pertaining to Merchant Services, Barclays Loan Payments, and Barclays Card Payments Divisions.
- Performing ETL operations, Big Data Analytics, Real Time Data Processing, Batch Processing, Machine learning, Data Modelling and more to: increase revenue, predict merchant risk scoring, predict product usage, process POS Transactional Data, manage company-wide risk, control data governance and quality, predict profitability, consumer spending patterns, loan fraud, attrition, and more.
- Solving ad-hoc BI projects with tools for machine learning and real time streaming analytics using Spark and Cloudera for insights such as anomaly detection, risk mitigation, credit transactions.
- Data engineering on several large RDBMS and Data Warehouses using tools such as Python, R, SQL Server, Teradata, Oracle, SAP Hana, Apache Impala, Hive, HBase, Pig, EC2, and Hue.
- OLAP Processing using Hadoop with Hyperion Essbase - MDX with customer transactional data, G/L data, location data, and historical data on the petabyte scale (hundreds of clusters.)

UBTalker Research Group - IoT/HCI Developer, Buffalo, New York   February 2017 - May 2017

ALS Home Automation Research Project at the University of Buffalo

- Completed a large scale C# desktop application(Xamarin,.NET) that interfaced with a Tobii Eye Tracker and a Windows Tablet to deliver a communication system that allows email and text messaging using SMTP. Our UI focuses on readability and ease of use for disabled patients. full documentation
- Integrated hardware such as fans, lights, television, etc.. onto the application which allows for 24 hour usage. Successfully deployed on disabled Patients, Nursing Homes/Hospitals in Buffalo, Niagara.

LP Ciminelli, Buffalo, New York   September 2016 – December 2016

Software Engineering Co - op (AR) at the University of Buffalo

- Created a Winforms Desktop Application (.NET) in Visual C++ that interfaced with the Microsoft Hololens with Virtual Router and uses TCP/IP connectivity for enabling Desktop - Hololens connectivity.
- Integrated file transferring capabilities into the desktop application which allows the transfer of .fbx and .nwd model files to be sent to the Hololens and be displayed in AR. Backend uses SiteGround (MySQL). Used Cloud-based Options for Continuous File Recycling/Flushing within the Hololens.

Web Developer, CSE Teaching Assistant, Buffalo, New York   September 2015 – December 2015

- Helped guide an undergraduate class size of over 200+ undergraduate and graduate students in C++, Java, and Python. Assisted in testing for Academic Dishonesty and Plagiarism using MOSS.
- Built core web content for the course, including material focused on advanced data structures (CSE 250) and algorithms. Built an automated testing suite for assignment grading using C++ and Bash.

SKILLS

Proficient: Java, C++, Python, R, ML, HTML, CSS, ARM, SQL, Teradata, Hadoop, Big Data, Verilog, Impala, Hive

Experienced: C, JS, Scala, NLP, AWS, TensorFlow, MIPS, Bash, Essbase, SQL Server, MySQL, PL SQL, Tableau

EDUCATION

University at Buffalo 2013 – 2017	B.S. Computer Engineering
	Association for Computing Machinery, Society of Asian Scientists and Engineers, UB Nanosatellite Group, UB Asian American Student Union