

# Paruhang Basnet

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## TECHNICAL SKILLS

- NETWORK PROGRAMMING AND ANALYSIS (CLIENT-SERVER APPLICATIONS, SOCKETS, UDP, TCP, SSH, CISCO)
- HCI MODELING, UI DESIGN, UX DESIGN, HEURISTICS, PROTOTYPING (VISIO, FIGMA, BALSAMIC, MICROSOFT SUITE)
- PROGRAMMING AND SCRIPTING/TASK AUTOMATION (PYTHON, JAVA, C++, NUMPY, PANDAS, AGILE WORKFLOW)
- WEB DEVELOPMENT (HTML, CSS, JAVASCRIPT)
- DATABASE MANAGEMENT, DEVELOPMENT AND DEPLOYMENT (XML, MYSQL, MONGODB, XQUERY, SQL)
- MACHINE LEARNING IMPLEMENTATION (SVM, NAÏVE BAYES, SCIKIT-LEARN LIBRARY)
- DATA VISUALIZATION (DASHBOARDING, MATPLOTLIB, POWER BI, SCIPY)
- DATA ANALYTICS (TREND GRAPHS, SALES ANALYSIS, STATISTICAL ANALYSIS, DATA CLEANING)

## EDUCATION

**BACHELOR'S IN COMPUTER SCIENCE**  
UNIVERSITY OF CALGARY

**GRADUATION, 2023**

## WORK EXPERIENCE

**INDUSTRIAL NETWORKS ANALYST INTERN**

**JAN 2022 – Nov 2022**

TECK RESOURCES

- MAINTAINED AND SUPPORTED INDUSTRIAL NETWORK ARCHITECTURE FOR ALL TECK OWNED MINE SITES
- IMPLEMENTED NETWORK CHANGES SUCH AS CONFIGURING OSPF, IP ADDRESSING, VLAN, SPANNING-TREE, TRUNKING AND MORE ON CISCO UNIX SHELL
- CONDUCTED SITE VISITS TO MINES FOR ON-SITE ANALYSIS, TROUBLESHOOTING AND MAINTENANCE
- CONFIGURED NETWORK DEVICES SUCH AS CISCO SWITCHES, GATEWAYS, ACCESS POINTS, AND INDUSTRIAL RADIOS FOR FIELD DEPLOYMENT AND CATALOGUED THE CHANGES TO THE RELEVANT DATABASES
- CONDUCTED NETWORK DATA ANALYSIS AND DATA VISUALIZATION USING DASHBOARDING SOFTWARE (SOLARWINDS, WUG, NETBOX)
- COLLABORATED WITH VARIOUS TEAMS TO LEARN DIFFERENT SYSTEMS AND TECHNOLOGIES SUCH AS DATA ANALYSTS, LTE ANALYSTS, PLC PROGRAMMERS, INFRASTRUCTURE AND SERVER ANALYSTS
- DEVELOPED REPORTS AND EXCEL SPREADSHEETS USING ANALYZED DATA WHILE ALSO ENSURING DATA ACCURACY

- DEVELOPED PYTHON SCRIPTS TO INCREASE EFFICIENCY IN TASKS SUCH AS DATA ANALYSIS AND DATA MANAGEMENT
- REPORTED DIRECTLY TO PROJECT MANAGERS TO PROVIDE DELIVERABLES, DATA DRIVEN INPUT, AND UPDATES ON PROJECT TASKS
- TOOK PART IN TEAM MEETINGS TO DISCUSS BUSINESS REQUIREMENTS AND PLAN NEW INITIATIVES
- TOOK PART IN SAFETY AND TECHNICAL WORKSHOPS TO EXPAND MY SKILLSETS AND STAY UPDATED ON SAFETY PRACTICES

## **OPERATIONS INTERN**

**AUG 2021 – DEC 2021**

### **NEO FINANCIAL**

- ADVISED AND ASSISTED CLIENTS REGARDING BANKING MATTERS WITH NEO FINANCIAL
- ELEVATED CLIENT BANKING EXPERIENCE WHILE DEMONSTRATING INTEGRITY WHEN WORKING WITH SENSITIVE CLIENT INFORMATION
- APPLIED STRONG PROBLEM-SOLVING METHODOLOGIES AND BEING QUICKLY ADAPTABLE TO ALL TYPES OF PROBLEMS AND ISSUES FACED BY CLIENTS, INCLUDING ISSUES NEW TO THE TEAM
- EXCEEDED KPI GOALS, REACHING KPI LEADERBOARDS IN A FAST-PACED START-UP FINTECH ENVIRONMENT
- REPRESENTED THE NEO FINANCIAL CULTURE WHENEVER WORKING WITH CLIENTS

## **LAB SUPERVISOR / IT**

**OCT 2018 – MAY 2019**

### **UNIVERSITY OF CALGARY ARTS FACULTY IT**

- SUPERVISED ARTS FACULTY COMPUTER LAB THAT CONSISTED OF AVERAGE OF 100 STUDENTS
- COMMUNICATED LAB RULES AND POLICES TO STUDENTS USING THE LAB
- HELPED SET UP INSTRUCTORS AND STUDENTS WITH EQUIPMENT START UP AND TROUBLESHOOTING

## **PRODUCE CLERK**

**JUN 2016 – MAY 2017**

### **LOBLAW (SUPERSTORE)**

- ANSWERED CUSTOMERS' QUESTIONS ABOUT MERCHANDISE AND GAVE ADVICE TO CUSTOMERS ON MERCHANDISE SELECTION
- STOCKED SHELVES, RACKS, CASES, BINS, AND TABLES WITH NEW OR TRANSFERRED MERCHANDISE
- CLEANED DISPLAY CASES, SHELVES, AND AISLES
- STAMPED, ATTACHED, OR CHANGED PRICE TAGS ON MERCHANDISE, REFERRING TO THE PRICE INDEX
- RECEIVED, OPENED, AND ISSUED SALES FLOOR MERCHANDISE

## **PROJECTS**

- WROTE A NIST TEST SUITE IMPLEMENTATION IN PYTHON FOR ANALYZING RANDOMNESS OF BIT SEQUENCES OBTAINED FROM GAMEPLAY. (NUMPY, SCIPY)
- CONDUCTED RESEARCH ON UTILIZING MACHINE LEARNING TO ANALYZE TWEETS OBTAINED FROM A DATABASE TO DETERMINE THE POLITICAL LEANINGS OF THE TWITTER USERS. USED A 80-20 SPLIT OF THE DATASET TO TRAIN THE SVM, NAÏVE BAYES MODELS AND THE ENSEMBLE OF BOTH MODELS. MACHINE LEARNING CODE WRITTEN USING PYTHON (SCIKIT-LEARN) (IN REVIEW FOR PUBLISHING)
- PROTOTYPED AN APP USING AN AGILE WORKFLOW TO CONDUCT USER RESEARCH, HEURISTIC MODELING, LO-FI AND HI-FI MODELING. (BALSAMIC, FIGMA)