

Dan(Danna) Choe

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Experience

Technical Analyst (Fullstack developer) at RBC Capital Markets, Jersey City, NJ

March 2018 - Present

- Developed a hierarchy builder application which allows users to create various risk management scenarios:
 - Frontend: Javascript, React, Redux
 - Backend: Python, Django, PostgreSQL
- Developed a data viewer application which allows Quant team to aggregate data to achieve specific business objectives to analyze.
- Developed an interactive REST API document web application which allows users to interact with RBC's enterprise market data API built using Javascript, Python, Django
- Configured API proxies on Apigee for the existing internal APIs by adding security, caching, and monitoring capabilities
- Implemented a service which automated XML generation by mapping trading data of Bond and Future based on FpML
- Implemented APIs to use 2-way SSL and OAuth token for prod and non-prod environments
- Wrote unit tests using Scala and Java during migration from CouchDB to Hadoop Clusters and Druid

Software Engineer Intern at Advanced Energy, Fort Collins, CO

May 2017 - August 2017

- Developed a desktop application which analyzes response time of all cyclical data objects.
The end product was increased efficiency in deployment of object mappings by using C/C++ and EtherCAT Networking
- Developed testing files for Firmware of AE products such as RF generators and RF Match

Research Assistant at Stony Brook University

August 2017 – December 2017

- Code Blue iOS App Project for Professor Paul Fodor and Dr. Paul Richman of Stony Brook University - School of Medicine
This app serves as a monitoring and recommendation tool for someone who had Cardiac Arrest

Teaching Assistant at Stony Brook University

August 2017 - December 2017

- Lead a Python Class(190 students) to work on course materials
- Proctored weekly programming labs and held weekly office hours for students to ask questions

Projects

- Compiler Design** - Developed a scripting language by using Python and PLY (parser generator) <https://goo.gl/sWdacH>
- Linux Shell** - Developed a shell on Unix/POSIX system with existing C libraries and system calls <https://goo.gl/9aVJze>
- Minesweeper Game** - Developed a game by using MIPS assembly language <https://goo.gl/iG3FoZ>
- Instabook** – Developed simple version of Facebook by using PHP, Javascript, and MySQL <https://goo.gl/wmo9Yq>

Skills

- Advanced level in **Java, Python, C/C++, JavaScript, React, Redux**, Prolog, SML, MIPS Assembly Language, Django
- Intermediate level in Angular2, TypeScript, JQuery, Scala, Spark, Swift, Flask, PyQt Framework, SQL, NoSQL

Education

Stony Brook University, Stony Brook, NY
Bachelor's degree in Computer Science

December 2017

iOS Mobile Bootcamp, CodePath

8 weeks course. Training in app development

February 2016

Activities

- RBC Hackathon 2019** (Awarded 2nd prize) - Developed a tree builder application by using JS, React, Redux, Python, and Django
- RBC Hackathon 2018** (Awarded 1st prize) - Developed Restful API service to publish trading data for FRTB from Hadoop clusters
- MHacks X Fall 2017** - Developed Android App by using Microsoft's Computer Vision API, Firebase, and Java <https://goo.gl/1cCZDc>
- HackRU XIII Fall 2017** - Developed a webapp visualizing big data with Vitech's V3 API, Python, Flask, JS <https://goo.gl/gYdj6H>