

# ABINESH SARVEPALLI

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## EDUCATION

### University of California, San Diego

La Jolla, CA

Bachelor of Science (B.S.): Computer Science, m. Cognitive Science and Computation

Aug 2016 – Jul 2020

## WORK EXPERIENCE

### Aspera, an IBM Company

Emeryville, CA

#### Full-Stack Software Engineer Intern (*Extreme Blue*)

Jun 2018 – Sep 2018

Tools: Ruby on Rails, Blockchain Hyperledger, JavaScript, GoLang, Jira, GitLab

- Designed Digital Asset Management (DAM) platform powered by Aspera on Cloud and IBM's Hyperledger Fabric project
- Developed RAILS app to interface with the DAM platform and Hyperledger Composer application
- Presented platform and use cases to IBM executives at Watson headquarters in New York, with projected \$39M ROI market opportunity over 4 years

### Dorrestein Lab

La Jolla, CA

#### Assistant Software Engineer

Mar 2017 – Present

Tools: Python, C++, Data Pipelines, OpenMS, MzMine

- Created open-source modules for MZmine2 & OpenMS using Java and C++ frameworks for metabolic data analysis
- Designed automated workflows using Python scripts for spectrometry data processing for GNPS Data Analysis
- Deployed and scaled developed tools for large data sets (public on <http://www.gnps.ucsd.edu>)

### Connectrex Corp

San Francisco, CA

#### Mobile Applications Developer

May 2016 – Sep 2016

Tools: Apple Swift, Objective-C, REST API

- Developed iOS application implementing biometric authentication frameworks
- Learned to work with REST APIs and asynchronous callbacks (JSON format)
- Worked with six-person team to deploy application

## PROJECTS

### Exalton

2018 – Current

- Create a cloud storage interface that allows cloud-to-prem encryption for all digital assets and administer tokenized decryption keys to view the contents
- Develop distributed ledger service capable of administering local permissions and generating asset activity reports.
- Release a native desktop application that audits user activity for a given file to a local instance of a distributed ledger

### Specto

2016

- Web interface solution to add biometric security for ATM machines using facial recognition
- Applied knowledge of REST APIs to communicate with a third-party biometric API

(More Projects on Personal Website: <http://abisarvepalli.github.io/> )

## PUBLICATIONS

- Nothias, Louis-Félix & Esposito, Mélissa & Da Silva, Ricardo & Wang, Mingxun & Protsyuk, Ivan & Zhang, Zheng & **Sarvepalli, Abinеш** & Leyssen, Pieter & Touboul, David & Costa, Jean & Paolini, Julien & Alexandrov, Theodore & Litaudon, Marc & Dorrestein, Pieter. **Bioactivity-Based Molecular Networking for the Discovery of Drug Leads in Natural Product Bioassay-Guided Fractionation.** Journal of Natural Products. 2018