

# DominicSilva

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Bachelor of Engineering  
Engineering Science



Stony Brook University  
August 2014

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in [linkedin.com/in/silvaDominic](https://www.linkedin.com/in/silvaDominic)

## DEVELOPED

### Personal Website

A personal website to showcase photography & projects portfolios using a RESTful backend

### Chat/Media Sharing App [on-going]

A web application that combines the functionality of Slack and Google Spaces using AngularJS and Google Firebase

### ETF Data Reader

A web application for retrieving Exchange Trading Fund data from a webpage, storing it in a MySQL database, and returning it to a user as tables and graphs

### Game Dev

Several arcade games such as Asteroids, 2048, and Pong through online program

### Hackathon Project: Gabble

A campus based social app designed to unite two strangers looking for company during a meal | Won 'best app' for feasibility and overall design

### Self Study

An understanding of fundamental computer science, web, and game development concepts & principles

## LEARNED

Frontend/backend relationship, server setup, Linux shell, JSON, AJAX, DOM, simple web design principles

Single page applications, realtime database, user authentication, task processing, MVC pattern, dependency injection, data-binding

Database queries, REST principles, server requests, templating, relational databases, persistence, web scraping, user registration and authentication, encryption

Basic game design patterns, mechanics, user interaction, simple AI, graphics rendering

Software development work flow, basics of iterative development, brainstorming & team collaboration techniques, proto-typing

OOP, full stack development, SOLID, RESTful web services, MVC, AJAX, database querying, version control, separation of concern, bash/shell, inversion of control, Agile/Scrum

## USED

Java | Spring Framework  
Apache | Tomcat | Maven  
HTML5 | CSS3 | Javascript  
jQuery | Illustrator

Javascript | AngularFire  
AngularJS | Firebase  
Bootstrap | Marvel App  
Photoshop | Illustrator

Java | Spring Framework  
MySQL | JDBC | Gradle  
HTML5 | CSS3 | JQuery  
Thymeleaf | Javascript  
JSoup | AmCharts

Python | C# | Java  
Photoshop | Illustrator  
Microsoft XNA

Marvel App  
Photoshop  
Illustrator  
Google Suite

Online courses through:  
Coursera, Thinkster,  
Udemy, & YouTube  
Books | Blogs | S.O.  
Colleagues in industry

## EXPERIENCE

### VIEWTRADE/ORBITAL FINANCIAL

#### Full Stack Engineering Intern

September 2016 - February 2017

##### Backoffice System

Redesigned UI and created custom file uploader using Bootstrap and Prototype.js

Improved data security between model and view by better encapsulating user data

Updated and made general improvements to legacy code using JSP

##### Web Platform

Created custom popout chart for financial analytics section of platform

Helped migrate MySQL database to MongoDB database

### POWELL ENERGY & SOLAR

#### Project Assistant/Intern

July - Sept. 2013 | March - June 2016

Calculated orientation, size, and price of solar arrays

Participated in residential energy audit and installation/repair of solar array

Designed 3D models of solar arrays using CAD

Organized customer accounts, quotes, proposals, dates, and appointments

Communicated build information to associated contractors of project

### STONY BROOK SOLAR BOAT

#### Engineer | Treasurer

October 2012 - June 2014

Helped lead development process and participated in weekly meetings to discuss project goals & deadlines

Designed mechanical components

Assisted in metal fabrication of mechanical components and carbon-fiber fabrication of boat hull

Helped design concept models of boat hull and participated in testing scale models using a towing tank

Organized budget, carried out purchase orders, and contacted sponsors

## RECOGNITION & AWARDS

### 2014 | Stony Brook University

Novelty and application of senior design project

### 2014 | Solar Splash Inc.

Intercollegiate Solar Boat World Champions

### 2011 | Stony Brook University

Best design for more energy efficient and ergonomic quad building