

# Maeda F. Hanafi

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## Education

### Doctor of Philosophy (Ph.D.) in Computer Science

Sept. 2015 - May 2020

NEW YORK UNIVERSITY (NYU) - TANDON SCHOOL OF ENGINEERING

Brooklyn, New York

- Focus: Data Extraction, Data Visualization, Artificial Intelligence, Program Synthesis, Human-Computer Interactions
- *Global Ph.D. Student Fellowship*: Full tuition and stipend scholarship
- Relevant Courses: Data Visualization, Programming for Big Data Analytics, Advanced Database Systems, Web Programming

### Bachelor of Science (B.S.) in Computer Science, Cum Laude Award

Jan. 2010 - Dec. 2012

SOUTHERN CONNECTICUT STATE UNIVERSITY (SCSU)

New Haven, Connecticut

- Relevant Courses: Databases Management System Design, Fundamentals of Data Mining, Artificial Intelligence

## Technical Skills

<b>Data and AI</b>	SQL, PostgreSQL, MySQL, TensorFlow, Tableau, ETL, Hive, Spark
<b>Programming Languages</b>	Java, Python, C#
<b>Web Programming</b>	JavaScript, jQuery, React, Angular, CSS, HTML, Spring MVC

## Working Experience

### Artificial Intelligence Remote Intern

Summer 2020

LOCKHEED MARTIN

Abu Dhabi, United Arab Emirates

- Utilized state-of-the-art research methods to automatically label large training datasets.
- Implemented auto-labeling code that cut down 4.2 million USD worth of costs towards human-based aircraft inspection.

### Graduate Student Research Assistant

May 2014 - May 2020

NEW YORK UNIVERSITY - ABU DHABI

Abu Dhabi, United Arab Emirates

- Implemented full-stack architecture (**Java**, **SQL**, **JavaScript**) of several automated data extraction tools.
- Programmed several **Java**-based back-end logic to facilitate automation in data tasks, including several program synthesizers.
- Presented several seminars and talks on data analysis and data extraction.
- Published research papers at top conferences for computer science: Conference on Human Factors in Computing Systems (CHI) and International Conference on Management of Data (SIGMOD).
- Helped and advised several students in the design and implementation of their final undergraduate projects related to data extraction.
- Experimented and tested statistical methods for automatically debugging errors with Bayesian networks and inference.

### Ph.D. Research Intern

Summer 2017 and Summer 2015

IBM RESEARCH

San Jose, California

- Collaborated with industry experts and researchers to build user-friendly data analysis tools using **PostgreSQL**, **React**, **Angular**, **D3.js**, and **Spring MVC**.
- Designed and implemented **SEER** that automatically generates user-friendly extraction programs from user-highlighted text examples.
- Conducted user studies and proved **SEER** to reduce the time and manual effort of building and debugging extraction programs.
- Deployed **SEER** to IBM's commercial data processing and analysis tool, **InfoSphere BigInsights**, making it one of the few research prototypes put into production.

### Graduate Student Teaching Assistant

Sept. 2013 - May 2014

SOUTHERN CONNECTICUT STATE UNIVERSITY

New Haven, Connecticut

- Graded and corrected student code from courses: Algorithm Design and Analysis, Java Programming, Multimedia Systems, Information Management and Productivity Software.
- Conducted tutoring sessions for **Java** programming.

## Awards and Media

- **Evolving Culture Award (Generated 4 million USD in value)**, Lockheed Martin. Summer 2020.
- **National Society of Leadership and Success, Presidential Award**, Southern Connecticut State University. Spring 2013.
- **Teenager Due to Graduate from SCSU this Year**, 2012. ([Southern News](#))
- **Academic Excellency Award in Computer Science**, Honors Convocation, Southern Connecticut State University. Spring 2012.
- **Distinguished Scholar Awards (\$12,000 scholarship)**, University of New Haven, West Haven, Connecticut. Fall 2009.