

Archana Pradeep

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EDUCATION

NATIONAL UNIVERSITY OF SINGAPORE

BENG IN COMPUTER ENGINEERING

Grad. June 2020 | Singapore

Cum. GPA: 4.25/5.00

Joint Multi-Disciplinary Programme

TEST SCORES

GRE GENERAL TEST:

333 (166V, 167Q, 5.0 AWA)

LINKS

Github:// [archanapradeep](#)

LinkedIn:// [archanapradeep](#)

TEACHING

Programming Methodology

Fall 2018

Embedded Systems Design Project

Fall 2019, Spring 2020

COURSEWORK

Natural Language Processing

Computer Vision

Intro to Artificial Intelligence

Software Engineering

Data Structures and Algorithms

Computer Architecture

Programming Methodology

Real Time Operating Systems

Networks

SKILLS

PROGRAMMING

Experienced:

Java • C • Golang

Familiar:

MeteorJS • Python • HTML •

CSS • MySQL

ACTIVITIES

University residence (PGPR):

Cluster Leader (AY 18/19,

AY 19/20)

Inter-Faculty Games: Basketball

Team Captain (AY 17/18)

ACHIEVEMENTS

2022 **Bronze Medal** 15th National Taekwondo Poomsae Championships

2021 **Spot Award** Grab

2019 **Silver Medal** NUS Inter faculty games, Basketball

2019 **Third place** 14th STePS under CS3243 Artificial Intelligence

2017 **Honorable Mention** Orbital (Project Gemini) by NUS Computing

EXPERIENCE

NATIONAL UNIVERSITY OF SINGAPORE | RESEARCH ASSISTANT

Jul 2022 - Present | Singapore

- Working with Prof **Roger Zimmerman** and Prof **Ooi Wei Tsang** on multi-camera computer vision in video surveillance
- Exploring low power object tracking on a Jetson Nano using Faster RCNN and YOLO series (YoloV3 and YoloV7)

GRAB | SENIOR SOFTWARE ENGINEER

Aug 2020 - Jul 2022 | Singapore

- Backend software engineer on the **Digibank** team
- Spot award winner** for exceptional contribution to onboarding and wider Digibank team
- Wrote and own **microservices** for onboarding orchestration, verification of users and management of user applications in **Golang**
- Worked on a bootstrap framework to be the backbone of all microservices with **logging, stats middleware, http routing, graceful shutdown** etc.
- Designed and implemented document upload flow for KYC using **Kafka, AV scanning, AWS S3** and in-house RTC.
- Designed and implemented Customer Identification number generation for newly onboarded customers using **RDS, Elasticache (Redis)**
- Designed and implemented **tracing middleware** that services can plug and play to improve team's service observability.
- Designed and Implemented the **error response structure** common to all services across the bank

SHOPEE | DATA ENGINEER

Jun 2020 - Aug 2020 | Singapore

- Worked on the internal version of **Apache Airflow**
- Used **Docker and Python** to improve efficiency of task schedulers by reducing the work done by each scheduler to 50%
- Enabled non-admins to access pools information on the UI

VISENZE | SOFTWARE ENGINEER INTERN

Dec 2019 - Jan 2020 | Singapore

- Intern on the **Data Platform Team**
- Worked with gRPC and protobuf to build REST-like APIs. Incorporated **spring-boot** and made the gRPC useable as an sdk (Python and Java)

AMAZON | SOFTWARE DEVELOPMENT ENGINEER INTERN

May 2019 - Aug 2019 | Berlin, Germany

- Intern on the **AWS Bill Generation Team** (Line Item Data Service)
- Implemented auditor to check correctness of data in LIDS pipeline using **Java, Node.js**
- Coded Lambdas to trigger step functions, merge bills, create manifests, query bills using filters. Wrote step functions integrated with **AWS SQS, SNS**

AUTODESK | SOFTWARE DEVELOPMENT INTERN

May 2018 - Oct 2018 | Singapore

- Worked on **Chaos Engineering** for the Wingman team.
- Worked with **AWS** (EC2, S3, IAM, SimpleDB, DynamoDB), **Java**, **Bash Script**
- Implemented multi-threaded scheduling to run multiple scenarios simultaneously.
- Inner sourced** within Autodesk and used by **6 teams** on Staging and Dev applications.

PROJECTS

READ.SLEEP.REPEAT | GOOGLE CODEU PROGRAM

- Worked in a team of 4 to create a web app for book lovers in **Java, Javascript, HTML/CSS**.

TETRIS | A SIMPLE TETRIS GAME BUILT USING JAVASCRIPT

- Built a Tetris game using plain javascript. Play :// [here](#) repo:// [here](#)

THA+ DANCE | WEARABLE DEVICE THAT CAN DETECT DANCE MOVES

- Responsible for the **machine learning**. Implemented **MLP** and **Random Forest** to predict dance moves with a 98% accuracy repo:// [here](#)

NETFLIX/SIMIANARMY | OPEN SOURCE CONTRIBUTION

- Fixed an issue where network chaos scenarios not running. view PR :// [here](#)
- Added instructions to create SimpleDB using AWS CLI to **documentation**