

PIN PIN (PINNAREE) TEA-MAKORN

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EDUCATION

Stanford University, Stanford, CA

Ph.D. in Electrical Engineering

January 2021

M.S. in Electrical Engineering

June 2015

B.S. in Electrical Engineering, with Distinction

June 2015

INDUSTRY EXPERIENCE

Technical advisor, Edsy

August 2020 - present

- Provide technical advice on platform development specializing in AI and machine learning applications.

Co-founder, Tenxor

July 2019 - present

- Tenxor develops state-of-the-art solutions for businesses with the latest technologies focusing on artificial intelligence and serverless deployments.
- We have developed solutions for an anti-counterfeit product, major retail and logistic companies, startups, and the government.

Marketing intern, Tick Tock Networks

Summer 2019

- Performed market analysis and research on potential clients in the financial sector.
- Designed marketing materials and prepared technical documentation.

Technical advisor, Ajaib

Spring 2018

- Joined Ajaib, an automated online InsureTech platform that allows people to insure each other in Southeast Asia, as part of Stanford University d.school class Launchpad.
- Provided technical advice and assisted in mobile application development.
- Ajaib was funded by Y Combinator in Summer 2018.

Effective Philanthropy Lab summer intern, Stanford Center on Philanthropy and Civil Society

Summer 2017

- Worked with Paul Brest, the lab's faculty co-director and former President of the Hewlett Foundation, on launching a new version of an online strategic philanthropy course.
- Identified ways and incorporated changes to improve course content and visuals.
- Developed a plan for testing the course with high net worth donors, nonprofit leaders, and foundation program officers.

Software engineering intern, Urban Engines (acquired by Google in September 2016)

Summer 2015

- Explored big-scale movement data to design and answer creative questions from the company's query engine platform.
- Worked on improving voice activity detection in an Android application that allows users to create personalized voice navigation.

Interim engineering intern, Qualcomm

Summer 2014

- Characterized the benefits of software WLAN-Bluetooth coexistence routines on co-located radios.
- Debugged and verified product change requests related to WLAN-Bluetooth coexistence issues.

RESEARCH EXPERIENCE

Stanford University

Convergence in the physical appearance of spouses, Professor Michal Kosinski

2017 - 2019

- Examined whether spouses' faces become more similar over time. Their facial similarity is estimated using two independent methods: human judgments and a facial recognition algorithm.
- The results show that while spouses' faces tend to be similar at marriage, they do not converge over time.
- The paper has been published in Scientific Reports: <http://www.nature.com/articles/s41598-020-73971-8>

Jackrabbot, Stanford Vision and Learning Lab

Spring - Autumn 2018

- Created a crowd-sourcing website on Amazon's Mechanical Turk (MTurk) to collect data to train Jackrabbot, a self-navigating automated robot designed to operate in pedestrian spaces.

Special Studies and Reports in Electrical Engineering, Professor Balaji Prabhakar

2014-2017

- Developed a user interface for alert detection in data centers.
- Developed a voice-based navigation iPhone application.
- Investigated indoors positioning using smartphone sensors (accelerometer and gyroscope).
- Developed an Android application to calculate displacement from sensor measurements and filter sensor noise.

Capri Fuel, Stanford Center for Societal Networks Autumn 2013

- Implemented the user interface website for the project, a redemption option from Congestion and Parking Relief Incentives Program (Capri) that let users earn cash rewards for refueling.

Capri carbon footprint data analysis, Research Experience for Undergraduates Program Summer 2013

- Computed the amount of carbon footprint that Stanford commuters who joined Capri can save via geocoding.
- Designed a database and performed data analysis on the correlation between user characteristics and carbon footprint behaviors in Ruby on Rails.

Chulalongkorn University, Thailand

Non-intrusive load monitoring Summer 2012

- Created a power consumption edge analysis program in Matlab for non-intrusive load monitoring (NLIM) in households. The University adopted the program for its NLIM research.

TEACHING EXPERIENCE

Stanford University

Graduate TA Advisor Autumn 2018 - present

Graduate Teaching Fellow for EE 102A (Signal Processing and Linear Systems I) Summer 2018

Course Assistant for EE 102A Winter 2018

Course Assistant for EE 278 (Introduction to Statistical Signal Processing) Summer 2016, Autumn 2017

Course Assistant for EE 103 (Introduction to Matrix Methods) Autumn 2016

Section Leader for EE 108 (Digital System Design) Spring, Autumn 2014, Winter 2015

- Designed and produced online lectures for the course in coordination with Stanford Center for Professional Development (SCPD).
- The online course is used to instruct EE 108 in Winter 2014.

EE 108 Lab Support Staff Summer 2014

- Prepared lab facility for EE 108.

Section Leader for EE 102A Winter 2013

PROJECTS/ACTIVITIES

Multiparametric MR Image Analysis for Prostate Cancer Assessment with Convolutional Neural Networks (CS 231N Final Project) Spring 2017

- Explored a convolutional neural network (CNN) approach in detecting aggressive prostate cancer (CaP) on a team of three.
- Evaluated the performance of a wide range of classification architectures including SVM, LASSO, manually designed CNN architectures, ResNet, and ensemble models.
- Report available at <http://cs231n.stanford.edu/reports/2017/posters/528.pdf>

DeveloperWeek 2016 Hackathon February 2016

- Built a quiz-based talent discovery and development platform in Flask on a team of 4.
- Won a sponsor challenge “cognitive computing solution for Human Augmented Intelligence using the HPE Haven OnDemand natural language processing, indexing, machine learning, and predictive analytics APIs.”

Virtual Collab (CS 194 Final Project) Spring 2015

- Built a web-based chat room that encourages real-time collaboration in Meteor on a team of 4. The product simulates the experience of students working together in a study room or at a TA’s office hours. Features include shared whiteboard and document viewer, user anonymity, and sub-chatrooms.
- Won the third prize on Stanford Student Enterprise Twitter Pitch Competition in 2016.

PROFESSIONAL AFFILIATIONS

Stanford Center for Societal Networks

Tau Beta Pi

Society of Women Engineers

Cum Laude Society (on the recommendation of the Andover Chapter)

Stanford Thai Student Association

LANGUAGES*Thai**English***EXTRACURRICULARS***Vectors Angel*

- Marketing manager November 2019 - present
 - Oversee social media interactions and marketing strategies.
- Program manager July - November 2019
 - Managed investor relations, event, and deals logistics.
- Summer student fellow Summer 2019
 - Participated in key processes involved with angel investment, which includes deal sourcing, due diligence, market analysis case writeup, invite angels, and support startups when needed.

Stanford Thai Student Association (Thai Club)

- Vice president of graduate students 2018 - 2019
- Catering manager: managed food and beverage orders for club events. 2014 - 2020

*Volunteer for Hot Chips, a symposium on high performance chips*2013 - 2014

- Helped with the set-up and execution of the conference including registration, food, sponsors, proceedings setup, and solving any and all problems the Hot Chips committee needs to solve during the conference.

*Stanford Table Tennis Team*2011 - 2016

- Financial officer 2014 - present
- Member of the collegiate competitive team 2013 - 2018. Participated in 2014 and 2015 National Championships.

Stanford Daily

Selected articles:

- *Tablets for the blind*: <http://www.stanforddaily.com/2011/11/15/touchscreen-braille/>
- *Graduate Students in Electrical Engineering jumpstarts grad student community support efforts*: <http://www.stanforddaily.com/2013/10/08/graduate-students-in-electrical-engineering-jumpstart-grad-student-community-support-efforts/>
- *Building a community*: <http://www.stanforddaily.com/2011/12/07/building-a-community/>
- *Population Regeneration*: <http://www.stanforddaily.com/2012/02/14/population-regeneration/>

*The First Asian American Footsteps Conference planning committee*April 2011

- Planned and organized a conference for Asian, Asian American, and mixed-heritage Asian students attending independent secondary schools in New England.

*Phillips Academy Student Alumni Representative*2010 - 2011*President of the sixth Triam Udom Gifted Math's Outstanding Student Searching*August 2008

- Organized a national mathematics competition for middle school students in Thailand on a team of 42.

HONORS AND AWARDS*James F. Gibbons Outstanding Student Teaching Award*June 2018*The President's Award for Academic Excellence in the Freshman Year, Stanford University*September 2012*Wadsworth Prize in Physics, Phillips Academy*June 2011*IUPAC Prize for Best Performance in Theoretical Exam (perfect score) and**Gold medal, International Chemistry Olympiad*July 2010*King's Scholarship (first ranked recipient), Royal Thai Government*February 2010*Silver medal, International Chemistry Olympiad*July 2009