FDUCATION

NATIONAL UNIVERSITY OF SINGAPORE

BACHELOR OF COMPUTING (HONOURS - 2:1 / DISTINCTION) IN COMPUTER SCIENCE

Focus: Programming Languages Class of 2017

NGEE ANN POLYTECHNIC

DIPLOMA WITH MERIT IN
NETWORK SYSTEMS & SECURITY
Diploma Plus Programme
Class of 2011
GPA: 3.89 / 4.0

INTERESTS

Programming language theory, type theory, developer tools, compilers, build systems.

AWARDS

- Certificate of Distinction in Programming Languages (Distinctions in Programming Language)
- Greylock Hackfest '16 2nd Prize Winner

for ChromeLens

- Bronze award for Polytechnic Student Research Programme in Wireless Sensor Networks

INVOIVEMENT

- Volunteered at RedDotRubyConf Singapore. Managed locations and sponsors. (2015)
- NUS Hackers coreteam member. Ran **talks** and **hackathons**. (2014 - 2017)
- National Junior Robotics Competition school representative (LEGO Robotics, RoboSoccer, 2001 -2010)

TOOLS

Languages

OCaml, Ruby, JavaScript, Swift, Java, Python, Haskell, HTML/CSS

Others

vim, git, docker, LATEX, shell-scripting

LINKS

twitter.com/jin_ linkedin.com/in/jingwenchen stackexchange.com/users/246849/

EXPERIENCE

GOOGLE. INC

SOFTWARE ENGINEERING INTERN | AUG 2016 - NOV 2016 | NEW YORK, NY

- Proposed, designed and built an artifact cache for Bazel (Google's OSS build tool), removing the need to redownload artifacts after cleans. **bazel.build**
- Rewrote Maven rules from Java to Bazel's extension DSL, Skylark, to improve extensibility surface for open source contributors.
- Side-project: Implemented OCaml rules in Skylark for building binaries.

TWITTER, INC

SOFTWARE ENGINEERING INTERN | MAY 2016 - AUG 2016 | SAN FRANCISCO, CA

- Front-end engineering for **mobile.twitter.com** with the Responsive Web team.
- Built interstitials and Direct Messages UI components with React.js and Redux and integrated Flow type checking into the codebase.
- Deployed releases, went on-call, triaged staging/production bugs, implemented observability features into the server.

VIKI, INC (A RAKUTEN CO.)

SOFTWARE ENGINEERING INTERN | MAY 2015 - AUGUST 2015 | SINGAPORE

- Designed and built a library and reporting service that verifies the integrity of the API and Web platforms in real-time with React.js, Rails, MongoDB and Redis.
- Deployed and tested across production clusters using drone.io and Docker.
- Built image transparency support and canonical URLs in image backend.

TINKERBOX STUDIOS

SOFTWARE ENGINEERING INTERN | JUNE 2014 - AUG 2014 | SINGAPORE

- Developed Bandwagon on iOS, a concert discovery app. App Store
- Worked closely with the UI/UX design team and product owner through Agile-based iterations on the RubyMotion app and Ruby on Rails backend, backed by Code Climate and Circle CI.

A*STAR INSTITUTE FOR INFOCOMM RESEARCH

Assistant Lab Officer | March 2011 - October 2011 | Singapore

- Built a Ruby on Rails app for an Arduino wireless car park monitoring system.
- Researched wireless structural health monitoring with a Govt housing agency.
- Assisted in offshore underwater wireless sensor network experiments.

RESEARCH INTERN | MARCH 2010 - AUGUST 2010 | SINGAPORE

• Designed & implemented an async & energy-adaptive protocol for wireless sensor networks powered by ambient energy, with C on MSP430 & XBee Radio.

PROJECTS

SUBTYPING TYPECHECKER HASKELL

A structural subtyping typechecker for a toy functional programming language with record and function types. ${\it github.com/jin/subtyping}$

MAHJONGLEH IOS (SWIFT), SPRITEKIT, GAME CENTER

Singaporean multiplayer tabletop tile game. Reached #1 Board/Family game in Singapore App Store. 4 stars with 360 ratings. crypt.sg/mahjongleh

RAYTRACER JAVASCRIPT, WEBGL/GPU.JS

A parallel and animated raytracer with benchmarking tools. raytracer.crypt.sg

CHROMELENS HTML/CSS/JAVASCRIPT | CHROME DEVTOOLS API

DevTools Extension for web accessibility development. 5000 users. chromelens.xyz

SCHEME AND BF INTERPRETERS OCAML | SCALA

Implemented interpreters for Scheme and Brainf***. crypt.sg/scheme - crypt.sg/bf

OCAML RULES FOR BAZEL SKYLARK (DSL BASED ON PYTHON)

OCaml rule extension for Bazel. github.com/jin/rules_ocaml

SOUNDCLOUD INSTANT SINATRA, REDIS, SOUNDCLOUD SDK Like Google Instant, but for SoundCloud. **soundcloud.crypt.sg**