



Grimmer (Teng-Chieh) Kang

A generalist and enthusiastic to make something good for people

📍 New Taipei Taiwan | ✉ grimmer0125@gmail.com

🌐 grimmer.netlify.com/ | [in tw.linkedin.com/in/tckang](https://www.linkedin.com/in/tckang)

I am creative, responsible and good at problem-solving. I have a physics background and have been a software programmer for years. I like to use different aspects to see the world.

WORK HISTORY

DEC 2018 - PRESENT

Software Engineer

Linker Networks Inc.

[Linker Networks](#) Launches Auto-labeling Service for Autonomous Driving Built on Microsoft Azure

Contribute codes on backend and frontend sides.

Use React, Node.js, JavaScript/TypeScript, GraphQL, Python, Azure, MongoDB etc.

JUN 2018 - NOV 2018

Software Freelancer

Earth

- Mobile
- Front-end
- Back-end
- AI (Convolutional Neural Network)
- Consultant

NOV 2016 - FEB 2018

Software Engineer Lead

Academia Sinica, Taiwan

Responsibility:

- Coding for visualization & analysis of GB size Astronomy-Data
- Team & Agile Project Management, collaborating with the U.S., CA, and South Africa team
- UX (User Experience) design
- DevOps

Accomplishment:

- Built a **full-stack + algorithm** team
- Contributed most codes on GitHub last these 2 years, and use **Pull Request** to do code review
- Inherited an **open source project** CARTA from US team and solved many issues
- Designed **live collaborating** - share screen server architecture

Stack:

- Clients: Python, React, Electron
- Servers: Node.js (Meteor) and C++11 with Qt
- Others: MongoDB, Docker, Slack, CMake

DEC 2015 - JUN 2016

Development Manager

Exosite

Responsibility:

- Develop IoT Web Application for customers
- Develop internal web tools

Accomplishment:

- IoT web applications to setup Devices.
- React, Redux, Angular, Material-UI, OAuth
- Docker, MongoDB, Node.js, Meteor

MAY 2015 - SEP 2015

Manager

ThroughTek Co., Ltd.

Responsibility:

- Lead a Team (up to 20 people)
- IoT Project management
- Architecture design & tech. problem-solving

Accomplishment:

- Solved a two-way audio call echo issue
- Launched a customized Push Notification project (MQTT)
- Launched a Chrome app project and contributed FFmpeg codes
- Launched a cross-platform library project
- Designed an open source Node.js server architecture to overcome proprietary protocol issues

NOV 2010 - APR 2015

Software Engineer, Manager (2012-2015)

Oplink Communications

Responsibility:

- Coding for iOS, Win/Windows Phone
 - UI and Network component design
 - Video, Audio encode/decode
 - Home Security & Automation
- Team + Project Management
- Streaming Architecture Design
 - P2P (hole punching): [C demo code link](#)
 - Protocol (TCP, UDP, RTP etc)
 - QoS
 - Turn Relay Server

Accomplishment:

- Built iOS/WP Apps from scratch
- Built iOS + Windows Team across sites (up to 6p)
- Introduced Agile Project Management, Git
- Improved Video Streaming Performance
- AWS maintenance

MAR 2009 - JUN 2010

Software Engineer

Quanta Computer Inc.

Responsibility:

- Algorithms, Network Program (Socket Server), UI
- C, C++, C#, WPF

Accomplishment:

- [US Patent](#): Image-based coordinate input apparatus and method utilizing buffered images, US8493362 B2
- Port Win Driver to Linux, remaster Ubuntu, wxWidgets painter app
- API
- Education App & Touch Game

DEC 2007 - JUN 2008

Research Assistant

Dept. of Physics, National Taiwan University

Develop Neutrino Telescope of High Energy Group.

EDUCATION

2004 - 2007

● **Master of Physics**
National Taiwan University
Optical System of Neutrino Telescope

2000 - 2004

● **Bachelor of Physics**
National Taiwan University

SKILLS

PROGRAMMING LANGUAGES

- C & C++: 2 year
- C#: 3 year
- Objective-C: 4 year
- Python: 1.5 year
- JavaScript & Node.js: 3 year
- Go

EXPERTISE

- Mobile
- Desktop
- Front-end & Back-end
- Asynchronous programming
- Leadership
- Project management
- Domain: Smart Home, Streaming and Radio Astronomy

APP, WEB & UTILITY PUBLICATIONS

- iOS: [record pets' respiratory rate](#) React Native
- Android: [monitor pets' respiratory rate](#) React Native
- Utility: [Visual Studio Code Back and Forward button](#)
- Utility: [Atom editor package-markdown-preview-kramdown](#)
- Utility: [A command line program to change macOS terminal title](#) Python, pip
- Chrome: [An extension for Gmail. Use slider or input page number to do pagination](#)
- Chrome: [An extension to Auto Show Dropbox Paper Table Of Content](#)
- Web: [Medical DICOM Image Viewer](#), Chrome extension ver.
- Web: [Full-text search your GitHub starred repositories](#) Golang Server, Elasticsearch, Redis, its [Chrome extension](#)
- Web: [Taiwan house price chart with auto update](#) Vue.js, [Plotly](#) (built on top of D3.js and [stack.gl](#)), Amazon AWS's Lambda, Google's Firebase

PORTFOLIO

Publications and below partial portfolio are all GitHub open source projects

- [Medium Article](#): Using GitHub Stargazers Distribution to Compare React, Angular and Vue
- [AI Web](#): AlphaGo Zero TicTacToe JavaScript Game, using CNN deep learning and TensorFlow.js
- [AI Desktop app](#): face finder. Python WebSocket Server using a deep learning model
- <https://github.com/grimmer0125/node-message-queue> Test message queue (RabbitMQ, ZeroMQ) and Kubernetes
- [GitBook](#): learning JavaScript
- Line chatbot: push new Apple Product prices, two versions: [Go](#) and [Node.js](#)