

# I Komang Sena Aji Buwana

FULL-STACK ENGINEER · TECH LEAD

Central Jakarta, Indonesia

☎ (+62) 877-2808-6648 | ✉ iksena@aol.com | 📅 August 23rd, 1997 | 🏠 sena.omg.lol | 📷 iksena | 🌐 iksena | 📧 iksena

## Experience

### PT Bank Danamon Tbk. (D-Bank PRO)

Central Jakarta, Indonesia

SENIOR SOFTWARE ENGINEER

Jun. 2023 — Present

- Develop back-end applications with Node.js and PostgreSQL and front-end applications with Angular, React, and Apache Cordova
- Developed and released new Cash-out via partner feature in D-Bank PRO
- Initialized and released new Backoffice app based on Strapi and enhance marketing contents on the app to be dynamic
- Initialized new feature of Gold Saving investment in DBank-PRO
- Designed the end-to-end architecture for the new Backoffice app for DBank-PRO
- Initialized code lint and unit testing in front-end and back-end repositories
- Integrated native C++ library to Android app and Apache Cordova plugin with Angular source code

### PT Bank BTPN Tbk. (Jenius)

South Jakarta, Indonesia

TECHNICAL LEAD

Jul. 2021 — Jun. 2023

- Bank BTPN is the company behind Jenius, the first digital banking app in Indonesia with approximately 5 million users and 40 features. I was trusted to manage a team of 18 developers, 12 quality assurances, and 2 quality engineers.
- Responsible for starting and designing the architecture of wealth management features in Jenius.
- Managed the team and collaborated with other organizations in the company to successfully release new features (investment, priority banking, insurance) in Jenius.
- Published developer guides of front-end coding conventions in Jenius.
- Collaborated with R&D and developed internal libraries to implement distributed GraphQL architecture across microservices.
- Collaborated with an international partner for new integration and migration in Jenius and Sinaya in BTPN.

FULL-STACK ENGINEER

Oct. 2019 — Jun. 2021

- Designed architecture and developed full experiences for priority banking feature using React Native, Express.js, MongoDB, Apache Kafka, and Redis.
- Developed UI/UX components based on atomic design for Jenius front-end revamp with React Native.
- Developed Backoffice web app with ReactJS.
- Fixed vulnerability in Jenius app using React Native and native app development using Android Java and iOS Swift

### FitHappy

Central Jakarta, Indonesia

SENIOR FRONT-END DEVELOPER (PART-TIME)

Apr. 2022 — Sep. 2022

FitHappy is a behavioral & medical-based wellness startup backed by a top VC in Southeast Asia. We help people to live healthier, lose weight, and solve chronic problems for good with digital habit-oriented program. As a senior engineer, I initiate the front-end development best practices, code convention, and architectural patterns for the legacy codebase. I also initiate the first release of FitHappy iOS app.

### Edulens

Bandung, Indonesia

CO-FOUNDER

May 2018 - Sep. 2019

Edulens is a school management system app which digitalized school, parents, and teachers connections. We also help students to prepare for university admissions with our services. It received funding from campus through LPIK ITB and PMW ITB, also from Kemristekdikti through PKMI.

### Freelance

Remote

WEB AND MOBILE DEVELOPER

May 2018 — Sep. 2019

- Received projects from local and international clients:
- Vessel Acceptance Modelling for Pertamina, Tanjung Sekong Terminal
- Social travel app for Piknik - Pitravelers
- Sales tracking app with GPS and camera functionality for Keboen23.com - Ixitask app
- Sales billing app with thermal printer functionality for Keboen23.com - Ixitask app
- A custom-made point-of-sale app for Lazise Catering, Sweden
- Publisher consultation app for Stanton Publishing House

## Education

### Institut Teknologi Bandung (ITB)

Bandung, Indonesia

S.T. IN OCEAN ENGINEERING

Aug. 2015 — Oct. 2019

I graduated from ocean engineering major with 3.43 GPA, had experience as a teaching assistant for Introduction to IT course, won some business and technology competitions, and awarded with Ganesha Karsa Award.

I was supported by a full scholarship from Google Developers to learn intermediate Android development skills and a certification test.

## Skills

<b>DevOps</b>	AWS, Docker, Kubernetes, Rancher, Vagrant, Packer, Terraform, Jenkins, CircleCI
<b>Back-end</b>	Koa, Express, Django, REST API
<b>Front-end</b>	Hugo, Redux, React, HTML5, LESS, SASS
<b>Programming</b>	Node.js, Python, JAVA, OCaml, LaTeX
<b>Languages</b>	Korean, English, Japanese

## Extracurricular Activity

### B10S (B1t On the Security, Underground hacker team)

S.Korea

CORE MEMBER

Nov. 2011 - PRESENT

- Gained expertise in penetration testing areas, especially targeted on web application and software.
- Participated on a lot of hacking competition and won a good award.
- Held several hacking competitions non-profit, just for fun.

### WiseGuys (Hacking & Security research group)

S.Korea

MEMBER

Jun. 2012 - PRESENT

- Gained expertise in hardware hacking areas from penetration testing on several devices including wireless router, smartphone, CCTV and set-top box.
- Trained wannabe hacker about hacking technique from basic to advanced and ethics for white hackers by hosting annual Hacking Camp.

### PoApper (Developers' Network of POSTECH)

Pohang, S.Korea

CORE MEMBER &amp; PRESIDENT AT 2013

Jun. 2010 - Jun. 2017

- Reformed the society focusing on software engineering and building network on and off campus.
- Proposed various marketing and network activities to raise awareness.

### PLUS (Laboratory for UNIX Security in POSTECH)

Pohang, S.Korea

MEMBER

Sep. 2010 - Oct. 2011

- Gained expertise in hacking & security areas, especially about internal of operating system based on UNIX and several exploit techniques.
- Participated on several hacking competition and won a good award.
- Conducted periodic security checks on overall IT system as a member of POSTECH CERT.
- Conducted penetration testing commissioned by national agency and corporation.

### MSSA (Management Strategy Club of POSTECH)

Pohang, S.Korea

MEMBER

Sep. 2013 - Jun. 2017

- Gained knowledge about several business field like Management, Strategy, Financial and marketing from group study.
- Gained expertise in business strategy areas and insight for various industry from weekly industry analysis session.

## Honors & Awards

### INTERNATIONAL AWARDS

2021	<b>2nd Place</b> , AWS ASEAN AI/ML GameDay	Online
2020	<b>Finalist</b> , DEFCON 28th CTF Hacking Competition World Final	Las Vegas, U.S.A
2018	<b>Finalist</b> , DEFCON 26th CTF Hacking Competition World Final	Las Vegas, U.S.A
2017	<b>Finalist</b> , DEFCON 25th CTF Hacking Competition World Final	Las Vegas, U.S.A
2014	<b>Finalist</b> , DEFCON 22nd CTF Hacking Competition World Final	Las Vegas, U.S.A
2013	<b>Finalist</b> , DEFCON 21st CTF Hacking Competition World Final	Las Vegas, U.S.A
2011	<b>Finalist</b> , DEFCON 19th CTF Hacking Competition World Final	Las Vegas, U.S.A
2012	<b>6th Place</b> , SECUINSIDE Hacking Competition World Final	Seoul, S.Korea

### DOMESTIC AWARDS

2021	<b>2nd Place</b> , AWS Korea GameDay	Seoul, S.Korea
2015	<b>3rd Place</b> , WITHCON Hacking Competition Final	Seoul, S.Korea
2017	<b>Silver Prize</b> , KISA HDCON Hacking Competition Final	Seoul, S.Korea
2013	<b>Silver Prize</b> , KISA HDCON Hacking Competition Final	Seoul, S.Korea
2013	<b>2nd Award</b> , HUST Hacking Festival	S.Korea
2010	<b>3rd Award</b> , HUST Hacking Festival	S.Korea
2012	<b>3rd Award</b> , Holyshield 3rd Hacking Festival	S.Korea
2011	<b>2nd Award</b> , Holyshield 3rd Hacking Festival	S.Korea
2011	<b>5th Place</b> , PADOCON Hacking Competition Final	Seoul, S.Korea

## COMMUNITY

2022	<b>AWS Community Builder (Container)</b> , Amazon Web Services (AWS)
2022	<b>HashiCorp Ambassador</b> , HashiCorp

## Certificates

2022	<b>AWS Certified Security - Specialty</b> , Amazon Web Services (AWS)
2022	<b>AWS Certified Solutions Architect – Professional</b> , Amazon Web Services (AWS)
2019	<b>AWS Certified Solutions Architect – Associate</b> , Amazon Web Services (AWS)
2021	<b>AWS Certified SysOps Administrator – Associate</b> , Amazon Web Services (AWS)
2020	<b>Certified Kubernetes Application Developer (CKAD)</b> , The Linux Foundation
2020	<b>HashiCorp Certified: Terraform Associate</b> , HashiCorp

## Presentation

### DevFest Seoul by Google Developer Group Korea

Seoul, S.Korea

PRESENTER FOR <HOSTING WEB APPLICATION FOR FREE UTILIZING GITHUB, NETLIFY AND CLOUDFLARE>

Nov. 2017

- Introduced the history of web technology and the JAM stack which is for the modern web application development.
- Introduced how to freely host the web application with high performance utilizing global CDN services.

### 6th CodeEngn (Reverse Engineering Conference)

Seoul, S.Korea

PRESENTER FOR <DEFCON 20TH : THE WAY TO GO TO LAS VEGAS>

Jul. 2012

- Introduced CTF(Capture the Flag) hacking competition and advanced techniques and strategy for CTF

### 6th Hacking Camp - S.Korea

S.Korea

PRESENTER FOR <METASPLOIT 101>

Sep. 2012

- Introduced basic procedure for penetration testing and how to use Metasploit

## Writing

### A Guide for Developers in Start-up

Facebook Page

FOUNDER & WRITER

Jan. 2015 - PRESENT

- Drafted daily news for developers in Korea about IT technologies, issues about start-up.

### AhnLab

S.Korea

UNDERGRADUATE STUDENT REPORTER

Oct. 2012 - Jul. 2013

- Drafted reports about IT trends and Security issues on AhnLab Company magazine.

## Program Committees

2016	<b>Problem Writer</b> , 2016 CODEGATE Hacking Competition World Final	S.Korea
2013	<b>Organizer &amp; Co-director</b> , 1st POSTECH Hackathon	S.Korea
2012	<b>Staff</b> , 7th Hacking Camp	S.Korea
2012	<b>Problem Writer</b> , 1st Hoseo University Teenager Hacking Competition	S.Korea
2012	<b>Staff &amp; Problem Writer</b> , JFF(Just for Fun) Hacking Competition	S.Korea