

# SANDY MANUTUR SIHOTANG

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## EDUCATION

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### Bachelor of Computer Science

[Institut Teknologi Del](#)

Aug '17 – Oct '21

- GPA: 3.19/4.00
- Organization/Awards: Head of the Student Association Himpunan Mahasiswa Teknologi Rekayasa Perangkat Lunak, Member of Departemen Komunikasi dan Informasi BEM, Member Of Del Programming Club, Second Place And First Place Himasti Coding Challenge Held by Institut Teknologi Del

## EXPERIENCES

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### Software Engineer

[Tokopedia](#)

Oct '21 – Present

- **Manage Registration Ads On Tokopedia**  
Developed and maintained the Registration Ads service, streamlining the process for internal Tokopedia users to record all advertising orders within the Tokopedia platform. This system is integrated with Tokopedia's core advertising services, such as TDN, Broadcast Chat, and others, significantly enhancing efficiency for internal operations.
- **Design And Develop MRD Mechanism**  
Designed, developed, and maintained the Marketing Requirement Document (MRD) system, which assists users in documenting the necessary requirements for advertising processes before the ads are published on the Tokopedia app or similar platforms. The MRD includes questions, quality control checks, and integrations with various services, helping users efficiently manage ads ready for publication.
- **Integrate Service To Service**  
Designed, developed, and maintained the integration of the Enterprise Marketing Solution service with existing Tokopedia services, including Injection Top Ads, which allows users to automate the injection of TopAds balance into seller brand accounts, Tokopedia Display Network, and Broadcast Chat. This integration streamlines the process of inputting ad content for banners on Tokopedia, as the content is pre-filled during the MRD completion stage.
- **Designed And Develop Cooperation Agreement Using Docusign Platform**  
Designed, developed, and maintained the cooperation agreement process using the DocuSign platform. After the registration is completed and brand and internal Tokopedia data are filled in, the Enterprise Marketing Solution (EMS) utilizes the DocuSign platform to generate agreements and send them to the email addresses provided during registration. Once all parties have signed the agreement, the invoice process can be initiated.
- **Implement Database Rotation in Several Service In Tokopedia**  
Developed a Database Rotation system for several databases used by services within Tokopedia. The Database Rotation process involves activating new users for database access and deactivating old users at regular intervals. This enhances security by ensuring that databases are not easily accessible to unauthorized users, as the host credentials are frequently rotated.
- **Designed And Develop Audit Data and Log Activity in system**  
Implemented ElasticSearch and New Relic in services to assist developers in auditing and logging errors within Tokopedia's services, improving monitoring, troubleshooting, and overall system performance.
- **Tech Stack: Go, GCP, Redis, NSQ, GRPC, Postgresql, Consul, ElasticSearch, New Relic**

### Software Engineer (Part-time)

[Kementerian Pariwisata](#)

Aug '21 – Nov '21

- **Design and develop 5 system application that named Desa Wisata in the lake Toba Area**  
The "Web Desa Wisata" is a platform that enables local businesses (UMKM) and regional governments in tourist areas to advertise or promote destinations that are ideal for both domestic and international tourists to visit.
- **Tech Stack: Laravel, MySQL, VueJS, JMeter**

## Software Engineer (*Internship*)

[Advotics](#)

May '21 – Aug '21

- **Develop and Manage Feature Data Transaction to Data Agregat**  
Developed a feature to synchronize data from OLTP to OLAP systems using ETL processes, enabling users to efficiently process and analyze data for reporting and other analytical purposes. This feature streamlined data flow between transactional and analytical databases, enhancing data availability for business insights.
- **Tech Stack: Java, MySQL**

## Backend Engineer (*Internship*)

[Tokopedia](#)

Jun '19 – Sep '19

- **Develop Dashboard For Team Escrow**  
Developed a dashboard for the escrow team at Tokopedia, which displays all transactions occurring within the platform. This system assists the escrow team in determining profitability and records all credit and debit transactions, providing comprehensive insights into financial activities.
- **Develop Double Prevention Payment (BNI, BRI and BCA)**  
Developed a double payment mechanism in Tokopedia that automatically refunds users in the event of a duplicate payment. This feature enhances payment security for users, ensuring a seamless and trustworthy transaction experience on the platform.
- **Tech Stack: Go, Redis, NSQ, GRPC, Postgresql, Data Integration, Consul, New Relic**

## SELECTED SIDE PROJECTS

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- **Fit Ulos.** Development of web-based application named “(FITULOS) Forum Inovasi dan Transaksi Ulos”, This system assists weavers in collaborating and conducting transactions related to Ulos textiles.
- **Koperasi DEL.** Development of a cooperative platform on Tobasa, Helps cooperative owners facilitate buying and selling transactions, with one of the key features being the Point of Sale (POS) system, which significantly streamlines the sales process.

## TECHNOLOGY STACKS

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- Languages: Go;PHP; SQL; C++; Java; JavaScript;
- Frameworks: NSQ; Postgresql; MongoDB; Redis;Jmeter; React Native; VueJS; Selenium; Laravel;
- Tools: Git; Docker; NewRelic; Elastic Search; Data Integration, GCP, Jenkins

## ACHIEVEMENTS

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- **[National] Finalist**, ACM ICPC Provincial at Kristen Maranatha University Bandung, 22 September 2018
- **[International]Finalist**, ACM ICPC Regional ASIA at Binus University, 10 November 2018
- **[National] Finalist**, ACM ICPC Provincial at Mikroskil
- **[National] Finalist**, GEMASTIK 12 Division Programing at TELKOM University
- **[Campus]** Second place Himasti Coding Challenge at Del Institute Of Technology, December 2019
- **[Campus]** First Place Himasti Coding Challenge at Del Institute Of Technology, July 2021