

# TAUFIK AL AMIN

Austin, TX | taufikalamin98@utexas.edu | linkedin.com/in/taufik-al-amin

## Education

---

### The University of Texas at Austin

*Master of Science in Geological Science, Jackson School of Geosciences*

*Austin, TX*

*Aug 2023 – Present*

- Fellowship awardee of Charles A. Caughey Graduate Fellowship for 1 selected potential student from Indonesia
- Reservoir Characterization Research Laboratory (RCRL) member in Bureau of Economic Geology – John A. and Kathrine G. Jackson School of Geosciences, under supervision of Dr. Xavier Janson and Dr. Christopher Zahm

### Institut Teknologi Bandung (ITB)

*Master of Science in Engineering; Major in Geological Engineering; 3.88/4.00*

*Bandung, Indonesia*

*Jan 2021 – Jul 2022*

- Granted the 2<sup>nd</sup> Winner of AAPG Imperial Barrel Award 2021 Asia Pacific Region, outperforming 8+ team delegations from the various universities in the Asia Pacific
- Elected as geomechanics mentor of AAPG Indonesia R&D Department for AAPG ITB SC research team

### Institut Teknologi Bandung (ITB)

*Bachelor of Science in Engineering; Major in Geological Engineering; 3.46/4.00*

*Bandung, ID*

*Aug 2016 – Oct 2020*

- Appointed as Geological Engineering ITB delegation for the 5<sup>th</sup> International Geomapping Gua Musang in Malaysia Kelantan University, winning 2<sup>nd</sup> best individual
- Granted the 2<sup>nd</sup> Winner of Geology Open Challenge in Jendral Soedirman University, outperforming 10+ team delegations from the various universities in Indonesia
- Awarded best writing competition by Discussion and Study Department, Geological Engineering Student Associations 'GEA' ITB, impacting 200+ students to understand geomechanics

## Experience

---

### Geo Dipa Energy (Indonesia state-owned geothermal company)

*Geologist*

*Jakarta, Indonesia*

*Aug 2022 – July 2023*

- Acquired subsurface data, conducted geoscience studies, production geochemistry evaluation, and well-targeting recommendation activities in conjunction with other divisions including reservoir and drilling engineers

### Supreme Energy (multinational energy companies, geothermal power plant)

*Thesis Project Intern, Structural Geologist*

*Jakarta, ID*

*Nov 2020 – Mar 2021*

- Analyzed fracture permeability pattern in naturally fractured reservoir in Muara Laboh geothermal field, developed the best reservoir performance based on 5 geothermal development wells using geomechanics and critically stressed fractures analysis

### Pertamina EP Asset 2 (Indonesia state-owned oil and gas company)

*Final Project Intern, Structural Geologist*

*South Sumatra, ID*

*Jan 2020 – Mar 2020*

- Established a robust geomechanics model to deduce its implications for fault risk in Limau Field, South Sumatra based on 3D seismic and 5 production oil wells data, formulating a risk scenario of subsurface fault movement

### Geological Engineering Master's Program, ITB

*Volcanology & Geothermal Assistant for Research-based Master Program*

*Bandung, ID*

*Jul 2021 – Dec 2021*

- Facilitated academic activities through a special task force to support the Research Master's Program implementation in the Geological Engineering ITB study program

### Sedimentology, Stratigraphy, and Subsurface Geology Laboratory, ITB

*Petroleum Geology & Sedimentology Laboratory Assistant*

*Bandung, ID*

*Aug 2018 – Dec 2020*

- Aided academic activities for Petroleum Geology & Sedimentology laboratory work for Geophysics, Geology, and Petroleum Engineering students, boosting 30+ individuals to understand petroleum geology subjects

## Organizational Experience

---

### American Association of Petroleum Geologists (AAPG) Indonesia

*R&D Team*

*Nationwide, ID*

*Jul 2021 – Present*

- Supervised the AAPG ITB student chapter for conducting Carbon Capture Storage research as geomechanics mentor, impacting 30+ students

- Led the AAPG Imperial Barrel Award (international oil and gas exploration case study) introduction sharing session for students in Indonesia at the 45th IPA Convention & Exhibition, impacting 50+ students

### **American Association of Petroleum Geologists (AAPG)**

*Student Member*

*Worldwide, USA*

*Aug 2019 – Present*

- Participated in the international competition AAPG Imperial Barrel Award 2021, seminars, and workshops

### **American Association of Petroleum Geologists (AAPG) ITB Student Chapter**

*Field trip, Office trip, and Workshop Team*

*Bandung, ID*

*Aug 2019 – Aug 2020*

- Conducted workshops and field trips for geoscience students in ITB, impacting 100+ students

### **Geological Engineering Student Associations 'GEA' ITB**

*Field trip Department Team*

*Bandung, ID*

*Dec 2017 – Oct 2020*

- Supervised the geological mapping and other field skills for ITB geological engineering students via field trips, sharing sessions, and competitions, impacting 200+ students

### **ITB Spiritual Camp**

*Head of Liaison Officer Team*

*Bandung, ID*

*Aug 2017 – Jul 2018*

- Supervised the weekly spiritual camp (mandatory spiritual camp for students taking Religion & Ethics course in ITB), regarding the speakers, contents, and technical issues, impacting 1000+ students

## **Projects**

---

- **Smart Device Usage Analysis using SQL, Spreadsheet, and R for Business Marketing Strategy - Google Data Analytics Capstone: Case Study Bellabeat (2022):** Developed smart device usage data insights to make high-level recommendations for marketing strategy
- **Stress, Fractures, and Well Performance Evaluation in Muara Laboh Geothermal Field, West Sumatra, Indonesia (2022):** Formulated the best geothermal well targeting scenario based on 5 existing development wells to achieve the highest productivity under the supervision of Supreme Energy - ITB
- **Land System Mapping in Sumba Island, Indonesia (2021):** Handled geological fieldwork to support the designation of land system in Sumba, East Nusa Tenggara, Indonesia under the supervision of the Indonesian Geospatial Information Authority and ITB
- **Petroleum Systems, Lead, and Prospect Evaluation of Faroese Area, Faroe Shetland Basin, UK - Faroe (2021):** Built comprehensive geological analyzes to formulate play, lead, prospect, and risk in the Farosea, UK, validated by AAPG IBA committee - ITB
- **Stress, Fractures, and Fault Stability Analysis in Limau Field, South Sumatra Basin, Indonesia (2020):** Generated geomechanical & fault risk model in the Belimbing Structure, Limau Field, South Sumatra with data provided by Pertamina EP

## **Additional**

---

**Technical Skills:** Advanced in Boreholes Image Log Interpretation, Pore Pressure & Geomechanics, Computer programming: SQL, R, Python, Data Analytics; Excellent in Seismic Interpretation; Proficient in Spreadsheet, Microsoft Office, and geoscience-related tools: Petrel, IP, Move, Geolog, and GMI Mohr-Frac

**Languages:** Native in Indonesian, highly proficient in English (TOEFL iBT score 88 - Upper Intermediate)

**Certifications & Training:** Reservoir Geomechanics by Stanford University; Geosciences Summer School on CCUS by ITB and IEAGHG; English for STEM by the University of Pennsylvania; Petrel Workshop by Schlumberger; Certified Data Analytics Professional by Google; Python for Everybody Specialization by the University of Michigan; CCUS Capability Building by ASEAN Council on Petroleum, U.S. Dept. of State – Bureau of Energy Resources, and Deloitte

**Awards:** AAPG Imperial Barrel Award 1<sup>st</sup> Runner Up Asia Pacific Region - won region wide petroleum exploration case competition out of 8+ teams across the Asia Pacific (2021); Charles A. Caughey Graduate Fellowship 2023 Awardee by Jackson School of Geosciences, The University of Texas at Austin - fellowship to cover tuition, living allowance, and insurance for 2 years of Master's program