

# David 大卫



Energy Solution Engineer | 能源解决方案工程师  
BESS • PV-ESS • Microgrid • AI • USTC MSc • China-based

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## Professional Profile / 职业概况

Energy Solution Engineer with MSc in Software Engineering (USTC) and hands-on delivery across hybrid microgrids, PV-BESS systems, C&I energy storage, and EV charging infrastructure. Strong in pre-sales solution architecture, feasibility analysis, techno-commercial proposals, and cross-functional project execution. Combines renewable energy domain knowledge with software, AI, and cybersecurity capability for smart-energy and international project delivery.

能源解决方案工程师，中科大软件工程硕士，具备混合微电网、光储系统、工商业储能与充电基础设施项目经验。擅长售前技术方案设计、可行性分析、客户技术交流与跨团队交付。

## Core Expertise / 核心能力

- Energy / 能源 储能系统, 光储充, 微电网, PV-BESS sizing, load analysis, grid integration, EV charging infrastructure, backup power design
- Solution / 方案 售前技术支持, 技术交流, 方案架构, feasibility study, techno-commercial proposal, client presentation, cross-team coordination
- Software / 软件 Python, SQL, FastAPI, Streamlit, React, Node.js, REST APIs, Docker, Git, Linux
- AI/Data / AI 数据 SVM, Transformer fundamentals, RAG pipelines, LangChain/LangGraph, evaluation workflows, analytics automation
- Security / 安全 Web security testing, SSL/TLS, PKI, prompt injection detection, network traffic analysis

## Professional Experience / 工作经验

- 2025 - Present **Energy Solution Engineer / 能源解决方案工程师**, *Wanbang Digital Energy (Starcharge) / 万帮数字能源*, Changzhou, China / 中国常州, International Solutions Center / 国际解决方案中心
  - Technical Solution Design:** Designed complete PV + ESS + EV charging systems and microgrid architectures (on-grid, off-grid, hybrid) for 10+ projects across East Africa covering 8MW+ PV, 12MWh+ BESS, and 960kW DC charging; performed load analysis, system sizing, optimization, and EMS design.
  - Pre-Sales & Client Engagement:** Joined international client meetings, clarified project requirements, presented system designs, explained technical feasibility, and prepared proposals and topology diagrams.
  - Feasibility Analysis:** Conducted site assessments covering grid availability, solar potential, and load demand; evaluated technical and economic feasibility and identified regulatory and infrastructure risks.
  - Cross-Functional Coordination:** Acted as the bridge between sales, R&D, and project delivery teams to align solution accuracy, timelines, and client expectations.
  - International Project Support:** Travelled to project sites for inspections; adapted designs to local grid codes, regulations, and standards across multiple African markets.
  - Documentation & Post-Sales Support:** Produced technical proposals, system topology diagrams, and performance calculations; provided ongoing technical support after project handover.
- 2017 - 2023 **Full-Stack Software Engineer & Technical Lead / 全栈软件工程师与技术负责人**, *EthioWeb Digital Solutions*, Addis Ababa, Ethiopia
  - Developed and maintained 5+ full-stack web applications for diverse clients, managing the full delivery cycle from requirements to launch and support.
- 2020 - 2023 **Teaching Assistant / 助教**, *Changzhou University International Student Office / 常州大学国际学生办公室*, Changzhou, China / 中国常州
  - Supported translation, cross-cultural coordination, recruitment activity, and international student services.

## Energy Projects / 能源项目

- 2026 **Midroc Gold Mining Microgrid / 矿山微电网**, *7MW PV + 2MW BESS + Diesel Hybrid*, Off-Grid Mining / 离网矿业
  - Led full system sizing, hybrid optimization, and feasibility presentation; improved system efficiency and reduced diesel dependence.

- 2026 **Roha Health Microgrid / 医疗光储充**, 818kWp PV + 261kWh BESS + EV Charging, Healthcare / 医疗
  - o Designed end-to-end hospital microgrid and backup strategy; improved critical-load resilience and reduced electricity cost.
- 2025 **German Square EV Station / 商业充电站**, 8 x 120kW Dual-Gun DC Fast Chargers, 960kW Total, Commercial / 商业
  - o Led layout design, power distribution sizing, and grid integration analysis for a high-traffic commercial fast-charging station.
- 2025 **Midroc Hospital PV & BESS / 医院光储备电**, 61kWp Rooftop PV + 10MWh BESS Backup, Healthcare / 医疗
  - o Designed PV layout, BESS sizing, and backup control; reduced grid cost and improved the site's energy sustainability.
- 2025 **Bank & Residential Backup / 银行与住宅备电**, Customized PV-BESS Backup Solutions / 定制化光储备电方案, Commercial & Residential / 商业与住宅
  - o Delivered tailored backup power systems including load profiling, system sizing, and reliability-focused proposals.

## — Education & Credentials / 教育与资质

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2023 - Present	<b>MSc Software Engineering / 软件工程硕士</b> , University of Science and Technology of China (USTC) / 中国科学技术大学
2019 - 2023	<b>BSc Computer Science / 计算机科学学士</b> , Changzhou University / 常州大学, GPA 4.7/5.0
Certs / 证书	Blockchain & Digital Economy (Tsinghua); PMP track; Python / SQL / React / Generative AI certifications
Language / 语言	English (Fluent) / 英语 (流利) Chinese HSK 4 / 中文四级 French B1 / 法语 B1
Awards / 荣誉	CSC Award Tsinghua innovation recognition 3rd Prize World Vocational College Skills Competition

## — Job Preferences / 求职意向

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Roles / 岗位	能源解决方案工程师 (Energy Solution Engineer) 储能/光储充工程师 (BESS/PV+Storage Engineer) 微电网工程师 (Microgrid Engineer) 海外售前技术支持 (Overseas Pre-Sales Support) AI 工程师 (AI Engineer) 软件工程师 (Software Engineer)
Cities / 城市	上海 (Shanghai) 苏州 (Suzhou) 常州 (Changzhou) 青岛 (Qingdao) 深圳 (Shenzhen) 可接受其他城市调动 (Open to relocation to other cities as well)