

RICARDO ABREU

Senior Software Engineer · Backend, Cloud, Distributed Systems & Security

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8+ YEARS

2 MICROSOFT PROMOTIONS

SPANISH · ENGLISH · FRENCH

Software engineer with 8+ years building secure backend services, cloud platforms, APIs, and distributed systems. Two promotions at Microsoft since 2020. Combines production engineering with end-to-end product ownership across independent apps and games.

Experience

Microsoft

SEP 2022 – PRESENT

Software Engineer II · Microsoft Purview & Microsoft Signing

- Builds and operates secure C#/Azure backend services and APIs for security and compliance scenarios, including certificate workflows.
- Supports deployments spanning cloud and isolated environments using Service Fabric and Azure platform capabilities.
- Contributes to architecture, CI/CD, reliability, and cross-disciplinary delivery across engineering, security, and compliance.
- Earned a second promotion in March 2025 after progressing from Software Engineer to Software Engineer II in 2022.

Microsoft

MAY 2020 – SEP 2022

Software Engineer · Security & Compliance

- Developed backend services and platform capabilities for Microsoft security and compliance products.
- Worked with C#, Azure, APIs, distributed systems, certificates, Azure DevOps, and automated delivery pipelines.

DESCIFRA

JAN – MAY 2020

Data Engineer

- Worked on an AWS API Gateway-backed API and regression and machine-learning models.

Boom.ai

APR – DEC 2019

Backend Engineer

- Developed backend APIs and algorithms; contributed to requirements and iterative delivery in a remote product team.

Earlier engineering

United Virtualities

JAN – MAR 2019

Software Engineer

- Worked across full-stack, cloud, and algorithmic software.

Tom Sawyer Software

NOV 2017 – JAN 2019

Product Development Engineer

- Built graph-visualization features and algorithms, supported customer work, and participated in candidate interviews.

Selected independent products

Opinr

PYTHON · DJANGO · POSTGRESQL · REDIS · CELERY · AZURE

Designed and built an independent ecosystem for practical apps and original browser games, including shared identity, REST APIs, asynchronous workflows, messaging, privacy controls, multilingual UX, containers, and Azure services.

opinr.co

Ma'alob

SAFETY SUPPORT · SCHEDULING · TRUSTED-CONTACT WORKFLOWS

Built a live personal-safety support product for routine check-ins, grace periods, missed-check-in alerts, trusted contacts, and a discreet reverse-PIN notification path. Ma'alob is not a substitute for emergency services.

maalob.opinr.co

Artificial Bee Colony + Tetris

PYTHON · PYGAME · OPTIMIZATION · UNAM THESIS

Implemented and documented an Artificial Bee Colony heuristic for a Tetris-based combinatorial-optimization instance. The public repository includes source, experiments, thesis, presentation, and recorded demonstrations.

github.com/ricardorodab/abc-tetris

Education & teaching

Universidad Nacional Autónoma de México (UNAM)

Licenciatura in Computer Science · studies completed 2013–2017; degree formally conferred in 2019

Undergraduate thesis: “Una implementación de la heurística Colonia de Abejas Artificiales a una instancia del problema de la 3-partición: Tetris.”

Computer Science Teaching Assistant · 2016–2020

Supported Programming Languages, Data Structures, and Computer Organization & Architecture.

Capabilities

BACKEND	C# · Python · Java · SQL · REST APIs · Django
CLOUD & SYSTEMS	Azure · Service Fabric · distributed systems · App Service · AWS · containers
SECURITY & IDENTITY	Certificates · authentication · authorization · OAuth 2.0 · OIDC · Key Vault
DELIVERY & DATA	Azure DevOps · CI/CD · Docker · Git · PostgreSQL · Redis · Celery
ENGINEERING	System design · architecture · algorithms · requirements · Agile · mentoring · AI-assisted development with human review

Additional learning: Unity Junior Programmer and Unity Essentials Pathway (July 2023). Languages: Spanish (native), English and French (professional working proficiency).