Uriel Alan Crampton Bocija

Full-Stack Software Engineer

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I build web applications and real-time systems. At HyLabs, I developed lab software and tested it with teachers. I now design on-device phishing detection for 24Defend.

EXPERIENCE

24Defend · Technical Lead — Jun 2026 – Present

- Lead engineering for a mobile platform that detects phishing links across SMS, WhatsApp, email and the web. The platform processed **more than 1.6 million queries in one month**.
- Designed an architecture that classifies domains on-device in about **30 ms**. The phone uses Bloom filters to check local domain lists during DNS resolution.
- Own the APIs and anonymized telemetry. An AI agent investigates suspicious domains in the background using registration records, DNS and TLS data. The backend caches its verdicts.

ANEP / DGETP-UTU · Innovation Advisor to the Deputy Director — 2026 – Present

- Lead the rollout of **24 innovation hubs** and coordinate **more than 50 people** across Uruguay's public technical schools to help students turn projects into ventures.
- Designed project tracking for the seven-stage program using Google Forms, Sheets and Apps Script. Each record links a problem to supporting evidence, a next step and the person responsible.
- Defined monthly reporting so the Deputy Director's office can prioritize requests by the projects affected, what is blocking them and when a team needs an answer.

HyLabs (Hyract) · Co-Founder & Technical Lead — Jan 2024 – Jul 2026

- Led a seven-person team that took a portable science lab from prototype to classroom use. Deployed **more than 30 labs**, each combining sensors, software and teaching materials.
- Built the Next.js and PostgreSQL platform for visualizing live sensor data. Integrated a LangChain assistant that helps students analyze experiments and write lab reports.
- Set product priorities with teachers during pilots and secured funding from ANII, LATU and Ingenio. We made our first sales in Uruguay and reached about 190 active or committed licenses.

World Travel Inc. · Full-Stack Software Engineer — Sep 2025 – Apr 2026

- Joined the company's first engineering team in Uruguay. Built and maintained Next.js and PostgreSQL applications for systems handling about 1,500 corporate travel bookings a month.
- Resolved production incidents and shipped enterprise integrations with an international team. Improved CI/CD pipelines, monitoring and alerts for services running on AWS.

TECHNICAL SKILLS

Development	TypeScript, JavaScript, Python, React, Next.js, Node.js, PostgreSQL
Cloud and AI	AWS (ECS Fargate, RDS), Azure, Docker, CI/CD, LangChain, OpenCV
Credential	Google Cloud Engineering Certificate

ADDITIONAL EXPERIENCE

Client projects · Freelance Software Engineer & AI Consultant — Jan 2019 – Present

- Built billing, sales tracking and event access systems for projects involving CONMEBOL, Huawei and Estadio Centenario.
- Built industrial computer vision applications with OpenCV and Azure. Advised ManuAR on agents that combine images and natural language to guide tasks in augmented reality.

Hyract · Co-Founder & Technical Lead — Jan 2022 – Aug 2024

- Co-founded Hyract to build connected hardware and software for automation and education. Designed real-time data pipelines and integrations with AWS and Azure services.
- Secured backing through the IncubaElectro program and represented the company at Collision and Web Summit.

PROJECTS AND LEADERSHIP

IEEE SBRM · Regional Meeting Chair — 2025

Directed the program and operations for an engineering student congress in Uruguay. Managed a budget of over USD 120,000 and brought together more than 200 participants from 15 countries.

Hospital robotics · Microsoft & Ingenio LATU — 2024

Led development of an autonomous robot designed to standardize bacterial sample collection in hospitals. The team won first place at the Robotics and AI Hackathon.

Los Teros · Autonomous drone for international rugby — 2024

Designed and built a drone that carried the match ball onto the field during Uruguay’s international rugby matches, broadcast on ESPN and Disney+.

FING TU APP · Mobile app for engineering students — 2021

Developed an app for engineering students at Uruguay’s Universidad de la República. It ranked among the top seven apps in Google Play’s Education category.

TECHNICAL MENTORING

Instituto Geselliano · Technology Advisor & Instructor — Jan 2023 – Present

Teach programming, electronics and microcontrollers to students aged 12–17 and help teachers use technology in their classrooms.

Universidad de Montevideo · Engineering Workshop Coordinator — Jun 2024 – Mar 2025

Designed programming workshops and mentored engineering students as they moved from defining a problem to testing a working prototype.

EDUCATION AND LANGUAGES

Universidad de Montevideo · B.S. in Computer Science — Expected Nov 2026

Merit scholarship covering 80% of tuition.

Georgia State University · International program — Jul 2025

Full scholarship to study academic English, public speaking and business globalization in Atlanta, Georgia.

Languages Native Spanish and advanced English