



# URBAN SKUDNIK

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 <https://www.linkedin.com/in/urbanskudnik> ·  <https://github.com/uskudnik>

## SUMMARY

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Product engineer, usually found turning spreadsheets into products. Full stack, but focused on backend and data engineering.

- Tech led platform team, creating **embedded analytics platform** that reduced **time to insight** from **minutes to seconds**, and **time to market** from **weeks to hours**
- Managed integrations with customers valued at **over \$10 billion**, resulting in generating a **seven-figure annual recurring revenue**
- Delivered site reliability engineering, ensuring stable system scaling from **5k requests per minute**, over 4 years of doubling growth, to **40k requests per minute**
- Provided strategic and tactical direction to product, engineering, and business by providing technical options and feasibility analysis, conducting budgetary analyses, and suggesting and implementing cost optimization measures

## SKILLS

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- Software Engineering
- Site Reliability Engineering
- Data Engineering
- Python - Django, Flask, pandas, SQLAlchemy, mypy, attrs, ...
- SQL - MySQL, PostgreSQL, Snowflake, SQLite
- Frontend - React, Typescript, HTMX, Elm, Javascript
- NoSQL - ElasticSearch, Mongo
- Temporal
- dbt, Fivetran
- Docker, Heroku, fly.io, AWS, GCP
- Nix, NixOS

## EXPERIENCE

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### Crunchtime (Zenput)

Senior Software Engineer

December 2019 | November 2023

Remote

- Developing operations execution product, helping grow company from **7 figure ARR**, via merger and acquisition, **to 9 figure ARR**
- Tech led data platform team, **creating embedded analytics platform** to support customer self-service reporting
  - Reduced **time to insight** for customers from **minutes to seconds** by creating interactive reports instead of emailed static files
  - Reduced **time to market** for data products from **weeks to hours**, and **removing the need for engineering resources** almost completely
  - Leading development of mobile analytics solution, resulting in getting solution to customers **months sooner**
  - Developed systems and processes to facilitate team collaboration in resource creation and onboarding of software and data engineers
- Tech led **integrations with \$10 billion+ customers**, creating highly reliable integrations generating a **seven-figure annual recurring revenue**,
- Site reliability engineering
  - Scaling product from **5k requests per minute**, to **40k requests per minute**
  - On-call engineer, resolved production incidents
  - Led Root Cause Analysis, implemented tooling and processes to prevent future incidents
  - Implemented technologies and processes to increase code resiliency and reliability
  - Tech led initiative to bring in Temporal for highly reliable processes
  - Started initiative to bring down test execution time **from 1 hour to 5 minutes**
  - Drove codebase improvements at scale by creating tools for other engineers to help engineering drive down technical debt and spread awareness of new practices, **reducing code debt at a sustained 5-15% YoY pace**
- Guided product, engineering and business by technical options and feasibility analysis, conducting budgetary analyses, and suggesting and implementing cost optimization measures
  - Brought down operational costs of infrastructure by **\$50k/year+** by identifying outlier queries and suggesting architectural changes for improvements
  - Aligned vendor's roadmap with internal product requirements
  - Advised business on financial forecasts for projects, **increasing project viability** by bringing down the cost **from \$2.5 million to 350-400k**
  - Partnered with vendors to nudge them to Do The Right Thing and reduce pressure on internal engineering resources (and helping open source in the process)

**Technologies:** Python, SQL, dbt, Snowflake, Temporal, Fivetran, Sigma Computing, Django, MySQL, React, Backbone

### URLs

- <https://zenput.com>
- <https://crunchtime.com>

**ShopGypsy**  
*CTO / Lead Technical Consultant*

January 2019 | January 2020  
Remote

- Developed scrapers, data warehouse and supporting infrastructure for ingesting clothing offerings from data providers for a startup ShopGypsy

**Technologies:** Elm, Postgrest, Python, Kubernetes, Google Cloud Platform (GKE, GCE), Docker, PostgreSQL, Scrappy

**Messari**  
*Senior Software Engineer / Consultant*

September 2019 | January 2019  
Remote

- Led and developed data ingestion engine for real-time crypto stock exchange information
- Developed data warehouse serving historical data for cryptocurrency projects

**Technologies:** Go, InfluxDB, PostgreSQL, Kaiko

**URLs**

- <https://messari.io/>
- <https://www.kaiko.com/>

**Octane AI**  
*Software Engineer*

July 2017 | April 2018  
Remote

- Developing WYSIWYG bot creation tool for Facebook Messenger Platform
- Developing new product features and worked with vendors to facilitate integrations

**Technologies:** Python, Flask, Redis, Greenlets, JavaScript, React, AWS, Facebook API

**URLs**

- <https://octane.ai>
- <https://yext.com>
- <https://twitter.com/howard/status/969327079635472384>

**RiskOptics (Reciprocity)**  
*Software Engineer*

February 2015 | February 2017  
Remote & On-site

- Developing as open source contributor to Google's GGRC project, from writing initial specifications with product/feature owners at Google to bringing features to final completion and production delivery
- Developing company's closed-source fork, led the transition from Google App Engine to AWS EC2, deployed and maintained customers on EC2 and implemented customer-specific features and login systems

**Technologies:** Python, SQLAlchemy, MySQL, Flask, JavaScript, CanJS, Google App Engine, Google Cloud SQL, AWS, Appscale

**URLs**

- <https://reciprocity.com/>
- <https://github.com/uskudnik/ggrec-core/>
  - Note: Google has since deprecated the project

<b>Celtra</b> <i>Software Engineer</i>	November 2013   October 2014 On-site
<b>Commission for the Prevention of Corruption of the Republic of Slovenia</b> <i>Software Engineer</i>	October 2011   September 2013 Remote & On-site
<b>Google Summer of Code – Gephi</b> <i>Software Engineer</i>	May 2011   August 2011 Remote
<b>Google Summer of Code – Deja Dup</b> <i>Software Engineer</i>	May 2010 – August 2010 Remote
<b>amazon-glacier-cmd-interface</b> <i>Open Source client for AWS Glacier</i>	2012 – 2016
<ul style="list-style-type: none"> <li>• <a href="https://github.com/uskudnik/amazon-glacier-cmd-interface/">https://github.com/uskudnik/amazon-glacier-cmd-interface/</a></li> </ul>	

## EDUCATION

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<b>Faculty of Mathematics and Physics, Physics</b>	2008 - 2013
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## OFFLINE

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Avid foodie and out-door person – hiker, (mountain) biker, swimmer, runner and skier and also an active member of local ski club and judge on local-level junior competitions.