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Certifications

[Ultimate Design Patterns](#)
[Clean Code](#)
[React 18](#)

Skills/Technologies		Years
Primary	Node.js	5
	Typescript	2
	C#(Desktop, ASP.NET)	8.5
	PHP	>10
Secondary	Python, Golang	<1
Cloud/Servers	AWS (Lambda, S3, ECS, Fargate, API Gateway, SQS, EventBridge, Cloudwatch)	3
	Linux Server (CentOS, Fedora, Ubuntu)	5.5

Source Samples/Github Repos

<https://github.com/rodroc/todo-react-app>
https://github.com/rodroc/secure_restful_api
<https://github.com/rodroc/jobpost>
<https://github.com/rodroc/laravel.mongo>

Systems Development/Integration

Savings & Loans, Financial Systems, SMS,VOIP, webRTC & Email integration, Centralized Accounts
Payable & Check Disbursement, Car/Auto Shop, Property Management, Water Refilling, System/Inventory, Custom CRM
& CMS, Appointment/Booking System

Databases/ORM/Search Platforms/Message Queue/Cache

NATS, Redis, MongoDB, Elasticsearch, Memcache, RabbitMQ, MSSQL Server 2000/2005/2012/2014,
SQL CE, MySQL, SQLite, FirebirdSQL, MS Access, RavenDB, NHibernate, LINQ, EF, Doctrine 2

APIs / Frameworks / Extensions / Tools

Front-end: AngularJS, Backbone.js, Knockout.js, Require.js, Back-end: Laravel 5.x, Symfony 2, ZF1, Codeigniter, Silex, F3,
API: PCast webRTC, Treegrid, Asterisk, Twilio, Nexmo, OAuth, Google Calendar API, Paypal, NUSOAP, Namecheap API,
Clickbank, PlacePay, AMember REST API, DLGuard Close Source: Crystal Reports, SignalR, ADO.NET, ActiveX/COM,
ODBC

TDD/Unit Test: Jest, PHPUnit

Scrum/Agile/DevOps Tools

Git, Vagrant, SVN, TFS, Bitbucket, GitHub, Gitlab, RedMine, JIRA, Confluence, Stash, Bamboo, HipChat

Server Administration

AWS, Fedora, CentOS, Ubuntu, BIND DNS, Webmin, IIS, Apache Http, Glassfish / Java Application
Server, vsFTP

CMS / CRM / Integration

vTiger, FrontAccounting, Wordpress, OpenCart, SilverStripe, AMember, Invision Power Board (Forums),
ProBid, Vicidial, AppCue

Career History

Jul 2020 – Apr 2025 **Concierge Plus** (Property Management Platform) (Canada)
<https://conciergeplus.com/>

Software Engineer (Typescript, Node.js, AWS, PHP) 4 yrs 9 months

1. **Data Integration**: Developed a Node.js/TypeScript system to sync resident data across multiple property management platforms.
2. **Microservices & Testing**: Built and tested microservices, ensuring high code quality with unit tests.
3. **Payment Integration**: Integrated placePay API for recurring, bulk, and manual payments, streamlining transaction processing.
4. **Account Management**: Implemented recurring payment settings, ledger transactions, and user amenity bookings with flexible time blocks.
5. **Technical Support**: Provided technical assistance to the developers & customer support team, resolving complex issues.

May 2020 – July 2020 **Jetwebinar** (Chicago, USA) <https://www.jetwebinar.com/>
Software Developer (webRTC, PHP) 3 months

1. **Webinar Setup**: Managed webcam and microphone configurations for seamless webinar experiences.
2. **Bug Fixing**: Troubleshoot and resolve issues in deployed modules and scripts, ensuring smooth functionality.
3. **Database Optimization**: Improved performance of slow-loading listing pages by optimizing MySQL queries.
4. **Customer Experience**: Integrated AppCue to enhance user experience with personalized in-app messaging.

Dec 2015 – Feb 2020 **TruEnergy Services** (Dallas TX, USA)
<https://www.linkedin.com/company/truenergy-group>
Software Engineer (Node.js, PHP, Golang, Twilio) 4 yrs 3 months

Logistics Software: <https://logistics.sandtiger.net>

1. **Twilio API Integration**: Developed features for truck driver call and SMS communication through browsers using Twilio API, Node.js, and socket.IO.
2. **vTiger Integration**: Integrated vTiger CRM for invoicing and settlement management for multiple trucking companies and drivers.

CRM:

1. **Excel Parsing**: Developed functionality to parse Excel spreadsheets based on power supplier column label mappings.
2. **Data Validation**: Implemented validation logic to match ESI/Meter IDs with the correct contracts in vTiger CRM.
3. **QuickBooks Export**: Created a feature to export valid payments as QuickBooks payment entries for streamlined accounting.
4. **Search Optimization**: Optimized voice recording searches using Solr, improving search efficiency.
5. **Golang Development**: Developed a Golang file service with JWT authentication for secure integration between vTiger and external web apps.

Sep 2013 – Dec 2015 **Outsourcing Companies**
Software Engineer (ASP.NET, XBRL, AngularJS, PHP) 2 yrs 4 months

Unileap
XBRL Spreadsheets (webApp) <https://www.dirept.com/>

1. **Spreadsheet Integration:** Used EF6 and stored procedures to fetch spreadsheet configurations and populate data.
2. **Data Persistence:** Developed functionality to save user input for writable cells and persist changes.
3. **UI Integration:** Integrated Treegrid.js spreadsheet plugin for enhanced data visualization and interaction.
4. **Tech Stack:** Utilized ASP.NET MVC5, Treegrid, Backbone.js, Require.js, Bootstrap.js, and MSSQL for full-stack development.

Invoice Account Split (webApp)

1. **Data Parsing:** Import from excel/spreadsheet or parse copy-paste text from a spreadsheet to save invoice list under specify project and property. Split the invoice amount by percentage
2. **Tech Stack:** PHP, Symfony2, Doctrine2, jQuery, MySql

Entuent

Contractor Registration (Web App) <https://www.awayteam.com.au/>

1. **Session Management:** Implemented RavenDB as temporary/session storage for saving registration data, enabling users to continue where they left off.
2. **Data Validation & PDF Generation:** Validated RavenDB data before generating PDFs containing contractor personal details.
3. **Telephony Integration:** Linked user registrations with company calls via Asterisk and SignalR, enabling seamless communication with a single click.
4. **Tech Stack:** Worked with ASP.NET MVC4, SignalR, RavenDB, NHibernate, MySQL, and jQuery-UI.

Clink IT Solutions

Online Restaurant POS (Web App) (employee module)

1. **Employee Management:** Developed and implemented key features for employee management using ASP.NET MVC4, AngularJS, and jQuery-UI.
2. **Tech Stack:** Utilized MetroUI and MSSQL for front-end and database development.

Updown Signals

Day / Option Trading Signal Provider (Web App)

1. **WordPress Integration:** Implemented SMS and email notifications for new financial data using PHP, Knockout.js, and jQuery.
2. **Cron & Template Management:** Managed cron schedules, email templates, and SMS headers for automated notifications.
3. **AMember Integration:** Integrated AMember for membership payment processing and subscription management.
4. **Data Tracking:** Developed features to list sent SMS, emails, and product subscriptions.

Mar 2009
– Jun 2013

KaizenSEO (Canada)

Software Engineer (PHP, C#) 4 yrs 4 months

Top Ranking Domain Searcher (Web App)

<https://www.youtube.com/watch?v=ZnpvNJHtjw>

1. **Domain Name Features:** Developed features to display top domain TLD availability based on keywords, search volume, competition, and local values.
2. **Membership Integration:** Integrated DLGuard for membership management and secure login.

3. **API Integration:** Integrated PayPal, Namecheap API, and DLGuard for payment processing and domain management.
4. **Full-Stack Development:** Acted as DB architect, front-end, and back-end developer using PHP, CodeIgniter, jQuery, and MySQL.

Site Launcher & SEO Management Software (Web App)

1. **WordPress Integration:** Integrated keywords, AdSense, and interlink manager for thousands of WordPress sites to improve site management.
2. **Automation:** Automated domain host record changes via Namecheap API and updated local Apache and BIND DNS configurations during WordPress site launches.
3. **SEO & Content Management:** Managed SEO and content optimization for WordPress sites to enhance visibility and user engagement.
4. **Tech Stack:** Worked with PHP, CodeIgniter, jQuery, MySQL, WordPress, and Bash scripting.

Custom CRM, CMS & CRO (Web App)

1. **Transaction Tracking:** Developed features to record key transactions such as emails (sent/received via Gmail IMAP/SMTP), opened newsletters, purchases, and inquiries.
2. **Content Management:** Implemented content management system with built-in SEO capabilities to enhance website performance.
3. **Tech Stack:** Utilized PHP, MySQL, Ext.js, and jQuery for development.

URL Referrals (Desktop App)

1. **HTTP & Google Search Parsing:** Developed features to parse and check HTTP response status and Google search result index counts, saving top-ranking URL data to an SQLite database.
2. **File Generation & Export:** Created functionality to generate and export CSV/XML files for data analysis.
3. **Web Service Integration:** Uploaded results via PHP NUSOAP web service for seamless data transfer.
4. **Log File Extraction:** Implemented batch extraction of web server log files from various compression formats (ZIP, GZ, BZ2, RAR, TAR).
5. **Tech Stack:** Worked with C#.NET 2.0, SQLite, PHP, NUSOAP, and Google Search API.

CRM Module (Web App)

1. **Customer Insights:** Developed features to search and display customer data, including latest purchases, order count, and total spending.
2. **Transaction History:** Created popup for detailed customer transactions, including email interactions (via IMAP/POP3), purchases, surveys, and newsletters.
3. **Email Integration:** Enabled email sending with copies stored in the Gmail sent box for tracking purposes.
4. **Order Management:** Displayed open and confirmed sales orders, as well as customer leads.
5. **Automation:** Developed cron scripts for pipeline management and automation.
6. **Tech Stack:** Worked with PHP, jQuery, IMAP/POP3, XTemplate, and MySQL.

HTTP Status Site Monitor (Web Service)

1. **Automation & Scripting:** Developed bash scripts and SQLite to run as cron jobs for server management tasks.
2. **Site Management:** Managed site addition/removal via PHP/CodeIgniter for seamless backend functionality.

3. **Error Notification:** Configured system to email the admin when Apache/PHP/DNS configurations fail, ensuring quick issue resolution.

Sep 2008
– Feb
2009

Contract Work

Software Engineer (PHP, C#) 4 months

Online Auction System for Patents (Desktop App & Web Service)

1. **Auction Notifications:** Developed notification system using PHP NUSOAP and C# widget to alert buyers about new auctions, and notify sellers about new bids.
2. **Bidder Alerts:** Notified bidders when they are the highest bidder, outbid, or when the auction ends and a winner is selected.
3. **Auction Outcome Notifications:** Sent notifications to bidders regarding auction wins or losses, and sent newsletter alerts to subscribers.

Loan and Accounting System (Web App)

1. **Platform Updates:** Updated customer information, loan processing, and payment processing features.
2. **Accounting Integration:** Automated posting to the General Ledger (GL) for accounting system updates.
3. **Data Management:** Enhanced records for employment, bank references, call logs, and loan notes.

Aug 2005
– Sep
2008

SMSi & MTSLA (Philippines) <https://smsi.com.ph/>

Software Engineer (C#, VB6, Java): 3 years 2 months

Savings & Loan Management System (Desktop App)

1. **Loan & Payment Processing:** Developed modules for loan computation, processing, and check handling, including withdrawals, refunds, and unearned interest management.
2. **Transaction Management:** Implemented passbook printing, journal processing (batch/individual), and cash processing features.
3. **Automation:** Enabled auto savings deduction for SMS load, account top-up from savings, and automated transfer with A/P and A/R.
4. **Data Management:** Facilitated member branch transfers, adjustments, and reporting on loans, service charges, and office transactions.
5. **Reporting & Export:** Developed comprehensive reports on loans, checks, collections, and SMS-related activities, with import/export capabilities.

SMS Top up Gateway

1. **SMS Load Top-Up Integration:** Developed automatic deduction feature for member savings accounts to top-up cell phone balances for GLOBE, TM, SMART, TNT, and SUN subscribers.
2. **Token Management:** Created a C# .NET 2.0 token manager running on a gateway server to process SMS keywords and interact with a Java web service on a Linux server for validation.
3. **System Integration:** Integrated with the OKSPINOY load server for status checks and sent real-time responses to branches and subscribers.
4. **Tech Stack:** Worked with C# .NET 2.0, VB6, Java, MySQL, and Glassfish.

Seminar Registration (Desktop App)

1. **Data Recording:** Developed a feature to record and manage data for registered attendees of seminars, training sessions, and conventions using VB6 and MySQL.

Time Attendance (Desktop App)

1. **Time Tracking:** Developed features to track employee time in and out across the company building for payroll reporting using VB6 and MySQL.

Mar 2004
– Aug
2018

Contract Work

Systems Architect/ Software Engineer: Part-time.

Car Preventive Maintenance Advisor (Web & Desktop Integration)

1. **System Architecture:** Designed and architected the system using Laravel 5.6 and MongoDB for vehicle towing, repair history tracking and preventive maintenance.
2. **Data Sync:** Developed PHP Web API and cron scripts for syncing MySQL data from carshop branches to MongoDB.
3. **SMS Integration:** Integrated SMS gateway to send customer notifications with advisory links and one-time passwords for kiosk login.
4. **VPN Configuration:** Configured OpenVPN clients on both Linux and Windows for branch connectivity.
5. **Stock Management:** Developed features for stock request and collaboration across branches.
6. **Tech Stack:** Laravel, MongoDB, VB6 and MySQL.

Carshop System (Desktop App)

1. **Estimate & Job Order Management:** Developed features for creating estimates, job orders, and tracking labor hours for mechanics.
2. **Payment Integration:** Supported multiple payment types (cash, check, credit card, credit line) for job orders.
3. **Parts & Labor Tracking:** Implemented 4-level grouping for parts/tasks, tracking parts and labor sales, and labor sales contributions per mechanic.
4. **Employee Productivity:** Developed reports to analyze employee productivity (wage vs. salary) and provide profit analysis.
5. **Reporting:** Created progress reports on job orders, service contracts, parts purchases, and sales (by date started, released, or payment).
6. **Inventory & Sales Management:** Developed features for inventory tracking, manual/auto posting of items, and managing sales orders, returns, and cash receipts.
7. **Customer Notifications:** Implemented auto SMS reminders for customer maintenance schedules, oil changes, discounts, and other important updates.
8. **Tech Stack:** VB6 and MySQL.

Real Estate Web Application (Web App) (prospecting module)

1. **Prospect Management:** Developed management pages for tracking prospects and converting buyer/seller data to contracts for new or existing properties.
2. **Google Calendar Sync:** Integrated Google Calendar REST API for seamless calendar synchronization.
3. **Custom Features:** Built sortable questions & answers and integrated ToDo plugin and wdCalendar for enhanced functionality.
4. **Email Notifications:** Enabled email note sharing with address book contacts (buyer, seller, broker, etc.).
5. **Tech Stack:** PHP and MySQL.

Centralized Cash Receipts (Desktop App)

1. **Centralized Cash Receipts:** Developed features for managing centralized cash receipts using C#.NET 3.5 WinForms and MySQL stored procedures.

2. **Reporting:** Utilized Crystal Reports (VS2008) for generating detailed cash receipt reports.
3. **Tech Stack:** C#.NET and MySQL.

WaterStation Software (Desktop App)

1. **Module Development:** Developed and implemented modules for Billing, Sales, Accounts Receivable, and Inventory using C#.NET 3.5 WinForms (LINQ) and MS SQL 2005.
2. **Database Design:** Designed database structure, created stored procedures, and optimized user system flow.
3. **Client Interaction:** Gathered and analyzed client requirements to ensure software met business needs.
4. **Legacy System Migration:** Migrated and replaced the old MSSQL 2000 database with MSSQL 2005 using PHP PDO for data transfer.
5. **Reporting:** Utilized Crystal Reports (VS2008) for generating reports.
6. **Tech Stack:** C#.NET and MS SQL

Centralized Accounts Payable & Check Disbursement (Desktop App)

1. **Centralized Check Disbursement:** Developed system to centralize check disbursements for subsidiary companies under the accounting department.
2. **Check Release Management:** Managed check releases per company and per bank, ensuring accurate tracking.
3. **Voucher Tracking:** Implemented tracking of outstanding accounts payable and check vouchers with separate series numbers for each company.
4. **Tech Stack:** Worked with VB6 and MySQL.

SMS / Text Blast (Desktop App)

1. **SMS Marketing Broadcast:** Developed and implemented an SMS broadcast system for marketing to selected groups of contacts or individuals using AT using C#.NET, LINQ and SqlCE.

Kitchen Inventory (Desktop App)

1. **Inventory Management:** Developed features for managing inventory items, item grouping, and FIFO cost flow method.
2. **Production & Sales:** Implemented auto computation for production items, sales data entry, and received items tracking.
3. **Supplier & User Management:** Managed supplier information, user groups, and rights/privileges for users.
4. **Reporting:** Created reports for inventory, received items, production, sales, discrepancies, and purchased items by supplier.
5. **Tech Stack:** VB6 and MySQL.

Biometric Daily Time Record (Desktop App)

1. **Time Recording System:** Centralized daily time recording and automated computation of hourly/daily earnings using **VB6** and **MySQL**.
2. **Overtime Management:** Implemented diverse overtime pay rates and ensured computation strictly within specified working hours with only authorized overtime recorded.
3. **Data Access:** Enabled easy retrieval of time records from anywhere within the building.

4. **Reporting**: Developed simplified **Daily Time Record** report for efficient tracking and management.

Human Resource Information System (Web App)

1. **HR Management System**: Developed features for personal profile, educational profile, current employment, and employment history using ASP.NET 3.5 (LINQ), AjaxToolKit, jQuery, and MSSQL 2005.
2. **Tech Stack**: Worked with IIS 5.1 for hosting the internal HR ASP.NET & application.

Shipping Port Container Management (Desktop App)

1. **Container Management**: Developed an import module for managing shipping containers at a port using VB6 and MySQL.

Sep 2003
– Dec
2003

Graphic All-In Stores

Business Dev. Officer, VB6 Developer: 3 months

Badminton Reservation System (Desktop App)

1. **Prepaid Card Validation**: Developed validation system for prepaid cards based on specific reserved or court types.
2. **Data Import**: Implemented serial/control number updates, corresponding passwords, and expiry dates via Excel/Text File Import.
3. **Notifications**: Created alarms for personnel when time slots are about to end or have ended.
4. **Sales Reporting**: Generated sales reports by card type and daily/monthly sales, with automatic email reporting on the following working day.
5. **Tech Stack**: Worked with VB6 and Access.

Education

Computer Engineering

Liceo de Cagayan University, 1999

Personal Information

Nationality: Filipino

Languages: English, Tagalog, Cebuano

References

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